

HECTOR AGUIRRE
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EDUCATION:

New Jersey Institute of Technology(NJIT) - Newark, NJ

Bachelor of Science, Chemical Engineering

Expected Graduation: December 2018

- GPA: 3.37
- Minor: Innovation and Entrepreneurship

Rutgers University Newark - Newark, NJ

September 2014 - May 2015

Bachelor of Science, Engineering

- Albert Dorman Honors College Scholarship recipient

KEY COURSES:

Organic Chemistry, Organic Chemistry Lab, Chemical Process Calculations I & II, Thermodynamics I, Engineering Management, Biotechnology Fluid Dynamics

EXPERIENCE:

Marion P Thomas Charter School, Newark, NJ

February 2017-Present

Mathematics Tutor

- Strengthen and enforce necessary math skills to students in need of specified attention.
- Develop relationships with disadvantaged students through open communication in efforts to motivate and mentor.
- Increased student's comprehension by simplifying and breaking down mathematical concepts.

NH2 Nutrition Meal Solutions, Woodbridge,NJ

January 2017-Present

Co-Founder

- Provide dietary solutions to customers by preparing their meals in advanced.
- Coordinating scheduled delivery dates for customers.
- Provide additional fitness support through improved dieting and work out ideas.

Central Park Restaurant and Bar, Roselle, NJ

May 2015-Present

Server

- Shift lead serving as a liaison between senior management and fellow co-workers.
- Building customer relations through effective communication of menu, friendly service, and swift service.

SKILLS:

- Fluent Spanish Speaker
- Familiar with Matlab code, Microsoft office use, Photoshop , MAYA designing software, HTML

ACCOMPLISHMENTS:

- Greek neophyte of the year 2015-2016 Rutgers University- Newark
- Self teaching MAYA design software and HTML coding

LEADERSHIP EXPERIENCE & VOLUNTEER EXPERIENCE:

- President of the Alpha Psi chapter of Phi Iota Alpha Fraternity Inc.
 - Collaborated with several student organizations
 - Overlook recruitment, educational, and service sub committees.
 - Assured good relations with alumni to provide valuable network opportunities for the students at Rutgers
- Annual volunteer at Newark community center toy drive, 3 Kings Drive

PROFESSIONAL AFFILIATION:

- Member: Society of Hispanic Professional Engineers (SHPE)
 - Webmaster and recruitment committee.
- Member: American Institute of Chemical Engineers (AIChE)
- Member: FowndersX NJIT

engineering

www.fox.com

PROFESSIONAL SUMMARY

I am a skilled researcher with experience in Continuous Pharma Manufacturing. Areas of expertise include, characterizing pharma unit operations and process analytical technology and powder handling. A dynamic and hard working person, actively seeking internship positions in the field of Pharmaceuticals, Oil and Gas, Sustainable Materials and Renewable energy sector.

EDUCATION:

- **Rutgers, The State University of New Jersey, New Brunswick, NJ**
Master of Science (M.S) in Chemical Engineering. (Current) GPA-3.67/4.00
- **SSN College of Engineering, Anna University, Chennai, India**
Bachelor of Technology in Chemical Engineering (B.Tech), GPA – 8.5/10 (2012-2016).

SKILLS: MATLAB, C, C++, AUTOCAD, HPLC, GAS-Chromatography, UV-Vis, IR, FTIR, FT-4.

WORK HISTORY:***OIL AND NATURAL GAS CORPORATION***

Summer Internship | Chennai | June 2013 - August 2013

- Played key role in designing drilling fluids and constructed cement slurries along with a detailed experimentation on rheological properties. Also, calculated the thickening time for different slurries along with its HTHP losses.
- Performed data analysis and provided recommendations to achieve complete identification, quantification and reduction of fugitive methane emissions from production operations. This project was associated with United States Environment Protection Agency(USEPA)- an Innovative climate change mitigation work program of ONGC.
- The characterization of formation fluids associated with the different hydrocarbons from the Cauvery river basin.

ORCHID PHARMACEUTICALS

Manufacturing Intern | Chennai | January 2014 - February 2014

- Prepared plans and layouts for equipment or system arrangements and space allocation.
- Worked closely with the zero discharge effluent treatment methods and estimated costs and set quality standards for the same.
- Gained essential knowledge of the different Pharma Unit Operations and worked closely with feeders, blenders and feed frames.
- Worked on lyophilisation and solvent recovery.

INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

Summer Research Intern | Chennai | May 2015 - June 2015

- Prepare conceptual designs and specifications, including hands-on fabrication of chitosan Bio-Polymer.
- Calibrated and Studied temperature and folding patterns of Chitosan films using contact angle meter.
- Application of Cross linking films as humidity sensors.
- Operated and maintained analytical instruments such as FTIR, GC and colorimeter.
- Study of water responsive polymers.

CENTER OF STRUCTURED ORGANIC PARTICULATE SYSTEMS LABORATORY (ENGINEERING RESEARCH CENTER)

Graduate Research Assistant | New Brunswick, New Jersey, US | September 2016

- Product and process development -Characterization of the different unit operations to study the relationship between the different process parameters and their dependence on powder properties.
- Development of calibration blends as a result of design of experiments(DOE). Gained expertise in operating V-Blenders, K-Tron(KT20) feeders and feed frames.
- Worked on spectral data acquisition from blend standards to construct partial least square calibration models (PROCESS ANALYTICAL TECHNOLOGY).
- In-Line Measurements of residence time distribution in a continuous blender.
- Real time sampling of data using HPLC.

ENGINEERING RESEARCH CENTER, RUTGERS UNIVERSITY

Graduate Student | New Brunswick, New Jersey, US | January 2017 – Current

"Performance Envelop Testing for feed frames Informed by Modeling, Including Material Properties as Inputs"

- We aim at determining the effect of material properties on the feed frame performance with an ultimate goal of developing a feed frame and mixing model.

PROFESSIONAL ASSOCIATIONS: Indian Institute of Chemical Engineers(IICHE).
American Institute of Chemical Engineers(AICHE).

eng

Chronical

SAHIL DANGE

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PROFILE

Mechanical engineering graduate student with one year industrial experience at Volkswagen. College topper and winner of the 3D Design competition hosted by World Wide Packaging in 2015. A black belt in karate with 16 years of training.

EDUCATION

Rutgers University, School of Engineering, New Brunswick, NJ **GPA: 3.72**
Master of Science in Mechanical Engineering (MSME), expected graduation October 2017
Can start working ASAP; completed all courses
Finishing thesis: "Design of a Working Prosthetic Mechanical Human Hand"

Pune University, M.E.S College of Engineering, Pune, India **First Class with Distinction**
Bachelor of Engineering in Mechanical Engineering (B.E.), May 2013

TECHNICAL SKILLS

Solidworks	AutoCAD	MATLAB	CFD
ANSYS	Python	ModeFrontier	NX5
Pro E	SolidEdge	MS Office	C

WORK EXPERIENCE

Volkswagen Pvt Ltd, Pune, India **August 2013-August 2014**

Graduate Apprentice, Manufacturing Engineering Department

- Collected, analyzed and presented part quality data in multi-team projects from design phase to start of production of various Volkswagen car models.
- Rectified more than 120 issues related to non-conformity with the quality standards, aesthetics and component designs.
- Used basic graphing and visualization techniques in Excel and PowerPoint to present data collected before and after implementing solutions.

TATA Automation Ltd., Pune, India. **August 2012-May 2013**

Project Trainee, Final year project on Automation in Material Handling System

- Designed and selected components based on market research like roller conveyors, battery cooling tank systems.
- Achieved a profitability index of 1.2 with a payback period of 4 years by the proposed process.

HONORS

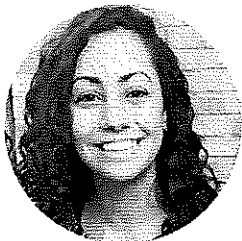
- 3D design competition winner hosted by World Wide Packaging, USA
- 1st Rank in Mechanical Engineering, M.E.S College of Engineering.

RELEVANT COURSES

CAD, CAM & CAE	Machine Design	Reliability	Heat Transfer
Optimal Design	Finite Element Analysis	Robotics	Thermodynamics

PROJECTS

- "Innovations in Lip Gloss Packaging"
(3D designing and analysis done on Solidworks); Fall 2015
Winning project on an innovative packaging design for a combination of lip gloss and moisturizer.
- "Optimization of Helical Suspension Spring in ModeFrontier"
Optimal Design, Spring 2015
Designed and selected optimal dimensions to minimize cost while maximizing stress capacity.
- "Future Trends in the Automotive Industry"
Automobile Engineering, Spring 2013
Project on the HCCI Engine and Quasiturbine Engine, comparison with current engine designs.



Monica George

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Education

Rutgers, The State University of New Jersey

School of Engineering New Brunswick, NJ

Major: Chemical and Biochemical Engineering

Anticipated Graduation: May 2018 | Engineering GPA: 3.4

Relevant Coursework: Heat and Mass Transfer, Thermodynamics II, Kinetics, Chemical Engineering Analysis, Multivariable Calculus, Differential Equations, Design of Separation Processes, Fluid Mechanics, Organic Chemistry (with lab work), Processing and Properties of Materials

Skills

- Fluent in laboratory protocol and sterile technique
- Familiar with MatLab, Aspen and AutoCAD
- Experience using nuclear magnetic resonance spectrometer, mass spectrometer, HPLC, Gas Pycnometer, and Near IR

Achievements & Awards

- Dean's List Fall 2016
- Member of the American Institute of Chemical Engineers (AIChE)
- Awarded annually renewing scholarship sponsored by Pershing LLC of \$20,000
- Graduated with Honors from the Pre-Medical Program, UMDNJ
- Salutatorian of Liberty High School Class of 2013

Work Experience

Chemical Engineering Research Assistant (Rutgers University)

2016-Present

- Develop research on the catalysis and absorption of metal oxide nanoparticles against chemical warfare agents to ultimately serve the United States military
- Characterize polyelectrolyte membranes loaded with in-situ grown metal-oxide nanoparticles, utilizing spectroscopy
- Gained increasing responsibility due to exceptional ability to be taught
- Contribute findings to research publications and working to present research in campus and AIChE symposiums

Chemical Engineering Learning Assistant (Rutgers University)

2016-Present

- Lead a classroom of 4-10 students twice a week in studies of thermodynamics, mass balance, and fluid dynamics
- Analytically diagnose weak areas in student's understanding and effectively communicate to clarify multi-layered

Teaching Experience

2012-2016

- Tutor for Engineers of the Future (EOF) (Rutgers University)
- Mathematics Teacher, Aloha Mental Arithmetic (Hillsborough, NJ)
- Tutor for Rutgers Writing Center (Rutgers University)
 - Was requested explicitly by students over succeeding years to be their tutor because of the ability to guide them through analytical thinking and thought organization
 - Grades of multiple students significantly improved after tutoring sessions
- Science Specialist (Oak Crest Day Camp)
 - Independently composed an eight-week curriculum aimed to teach scientific concepts and presented to an audience ranging from 10-200 campers and parents

Project Coordinator, Douglass Project (Rutgers University)

2013-2014

- Significantly improved organization in the office using Microsoft Outlook, Excel, PowerPoint
- Named the best undergraduate worker of the year by superiors due to meticulous and reliable work

Legal Department Intern (Pershing, LLC, Jersey City, NJ)

2012-2013

- Entrusted with performing large quantity and time sensitive tasks dealing with government issued Levis
- Awarded four-year renewing scholarship for delivering consistent, high quality work

Volunteer & Activities

Music Leader for The Risen Refuge in Jersey City

2009-Present

Judge for the NexGen Research Symposium at Rutgers University

2016

Member of a panel responsible for interviewing post-doctoral candidates for the Rutgers Learning Centers

2016

Kristen N. Gonzalez
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Beachwood, N.J. 08722

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Education

Rutgers University (September 2, 2014 – May 14, 2017)

- Collegiate Member of Society of Women Engineers (SWE)
- Collegiate Member of Institute of Industrial and Systems Engineers (IISE)
- Undergraduate Applied Sciences in Engineering major with strong focus in Industrial Engineering and Business

Ocean County College (September 5, 2012 – June 15, 2014)

- Associate's Degree in General Engineering
- Dean's List for two semesters

Toms River High School South (September 3, 2008 – June 6, 2012)

- National Honor Society, Academic High Honor Roll, Math League, Chorus Member, Bible Club Leader, Student Tutoring, Peer Leadership, High School Soccer Team

Work Experience

Morgan Engineering LLC, Island Heights, N.J.

May 14, 2015 – August 26, 2015
May 16, 2016 – August 12, 2016

- Field Crew Intern for Summer of 2015
- Crew Chief and Trainer for Summer of 2016

Wawa Inc., Toms River, N.J.

July 10, 2012 – August 27, 2014

- Customer Service Associate
- Employee of the Month (February 2013)

Special Needs Child Care

January 2011 – June 2012

- Providing care for two families with special needs children once to twice a month

Volunteer Work

Toms River First Church of the Nazarene Audio/Visual Technician Team

Philadelphia District NYI (Nazarene Youth International)

- Nazarene Youth Convention (NYC) Participant
- Philadelphia Impact Team

Skills

- Computer SW knowledge: FORTRAN, AutoCAD, MathCAD, MS Office Suite, MATLAB, ARENA, LEGO Mindstorm Robotics, Excel functions specific to IE
- The ability to work in a team environment, including team management/leadership, communication, strong work ethic and dedication

DOROTHY HAS

Whitehouse Station NJ, 08889 • (908)455-5585 • dhas7539@gmail.com

EDUCATION

Rutgers University- School of Engineering and School of Environmental & Biological Sciences New Brunswick, NJ
Bachelors of Science in Bio-Environmental Engineering Dual Degree Expected 2018
Campus Involvement: Engineers without Borders, Society of Women Engineers, Polish Club, Swing and Salsa Dance

Raritan Valley Community College Branchburg, NJ
Associate of Science Degree in Science and Mathematics - Environmental Science May 2013
Campus Involvement: President & Vice-President - Environmental Club, Biology/Chemistry Club, Rotaract
Board of Trustees Service Learning Leadership Award for outstanding service to the campus community through activities developed for the Environmental Club.

PROJECTS & RELEVANT COURSEWORK

- Performed tests using the tension infiltrometer measuring the unsaturated hydraulic properties of soils in pastures of the Equine Research Facility resulting in the greater understanding of properties of soils.
- Assisted in the creation of pre-travel report as a part of the technical team of EWB Kenya chapter for the installation and upkeep of SQ/SQE submersible pump to bring residents of the area clean drinking water.
- Partook in a group which imported and examined the distribution of well water test data of Readington Township.
- Researched, mapped and wrote a field study data analysis paper on endangered plant species focusing on *Cynoglossum Virginianum* Var. *Virginianum* in the Round Mountain Forest NJ.
- Studied and tracked legislation relating to the protection or remediation of ecologically affected areas.
- COURSES: Environmental Fate and Transport, Mechanics of Statics & Dynamics & Materials, Electrical Engineering, Physical Principles of Environmental Science, Design of Solid Waste Treatment Systems, Computer Aided Drafting.

LEADERSHIP EXPERIENCE

- Society of Women Engineers at Rutgers University** 2016-2017
- Lead lab tours as a SWE member to groups of girl scouts aiming to galvanize their interest in the STEM field.
- President of Environmental Science Club at Raritan Valley Community College** 2012-2014
- Co-coordinated Eco-Week bringing environmental awareness to campus & included guest speakers, sale of eco-friendly products, movie showings, and a campus clean-up.
 - Led presentations to student body about solid waste reduction, techniques to reducing their carbon footprint, and the uses and advantages of biodegradable products.
 - Aided in successful development of a compostable waste management system in the campus cafeteria.

VOLUNTEER EXPERIENCE

- Through NJDEP, installed 3 miles of protective beach fencing at Island Beach State Park to restore the habitat for numerous rare and endangered species in the state.
- Conducted amphibian road crossing surveys near the Sourland Mountain Reservation for Conserve Wildlife Foundation.
- Carried out surveys on invasive species and endangered plants in Mahlon Dickerson Reservation and Branchburg Township. Collection of data was necessary evidence to recommended actions to protect the forests/areas.
- 40-acre forestland reforestation project for Friends of Hopewell Valley Open Space & Mercer County Park Commission.
- Removed invasive plant species and performed general maintenance of cages and placed tags on trees for the Musconetcong Watershed Association.

SKILLS & RELATED COURSEWORK

- Bilingual- Fluent in Polish
- Strong Analytical and Computational Abilities
- Excels in a Collaborative Environment
- Strong Data Evaluation
- Detail Oriented
- Proficient in Microsoft Office Suite
- Familiar with MATLAB and Solidworks

WORK EXPERIENCE

EMT and Rescue Services Member – Whitehouse Rescue Squad | 2012-Current

- Provide life support services during medical emergencies on scene and en route to the hospital.
- Initiate plans of care based on patient assessments in a dynamic environment.
- Maintained updated knowledge with treatment protocols, response requirements and quality assurance procedures.
- N.J. State Department of Health Certified EMT as well as First Aid and CPR.

environmental engineering
lab

THOMAS W HAYES

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MILLBURN, New Jersey 07041

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thomas.hayes@rutgers.edu

Objective

Recent graduate in Civil & Environmental Engineering seeks challenging full-time entry level position

Education

Rutgers University New Brunswick, New Brunswick, NJ

Anticipated January 2017

Bachelor of Science: Civil & Environmental Engineering, Minor: Spanish

Skills

- Fluency in Spanish
- Talent in fine arts and design
- Adeptness in using: Microsoft Office tools Word, Excel and PowerPoint, MATLAB, Maple, SolidWorks, AutoCAD, Revit, ArcGIS, The project management tool CMiC

Work Experience

Shawmut Design and Construction

May 2016 - August 2016

Intern/Coop Project Management

- Worked closely with project team on the closeout process of their largest project to date, the renovation of the Intercontinental at the Barclay.
- Analyzed the submitted documents, contracts, field work logs, worker hours logs, for discrepancies and made the necessary adjustments
- Finalized financial proceedings between subcontractors and management
- Gained experience in drafting submittal documents and analyzing plans
- Attended onsite visits and project meetings to further my understanding of the construction process first hand

David's Landscaping, Millburn, NJ

Summer of 2013, 2012 & 2010

Landscaper

- Completed a variety of manual labor tasks repairing and beautifying the grounds of local residencies and businesses.

Relevant Experience

Susan DelGreco, Millburn, NJ

Summer 2013

Illustrator

- Drew design schematics by hand for an approved patented product, The Pivot Pad (Patent No. 8371963)

University of Valencia Foreign Exchange Program, Valencia, Spain

January 2015 - June 2015

Student

- Enrolled as a full time student in a top level university in a foreign country for the Spring 2015 semester.
- Acquired an exceptional aptitude for acclimating and adjusting to new challenging environments.
- Developed finesse in communicating and socializing with native Spanish speakers as well as new people in general.

Extra Curricular Activity

Rutgers Engineers Without Borders

Guatemala Project Member: Fundraising Committee, Monitoring Committee

- Managed fundraisers, including a successful blood drive that earned a scholarship from the New York Blood Center
- Was responsible for drafting and translating documents and surveys in Spanish for use between our student chapter and the professional engineers in Guatemala

The Scribblers Art and Writing Club

Co-President

- Ran weekly meetings and occasional events celebrating creativity and the arts for an average of 15 students
- Organized trips to New York for art related events

Jo C. Huang

Flemington NJ | (908)328-7916 | johuang324@gmail.com

EDUCATION

Rutgers, the State University of New Jersey

Bachelor of Science in Chemical and Biochemical Engineering

Major GPA 3.85 | GPA 3.66

Relevant Coursework: Kinetics, Design and Separation, Transport Phenomenon, Thermodynamics, Chemical Engineering Analysis, MATLAB

New Brunswick, NJ

Class of 2017

WORK/TECHNICAL EXPERIENCE

Rutgers Learning Center

Learning Assistant in Chemical Engineering Department

- Lead chemical engineering analysis II study group of approximately 18 students and reinforce important concepts and equations
- Assist students in recitations and labs by providing technical guidance, asking questions that challenge thinking and addressing misconceptions

Piscataway, NJ

Sept. 2014 - Present

Formosa Plastics Corporation USA

Engineering Intern in Production & Maintenance Department

- Reviewed B1 projects to analyze faulty equipment and process errors. Worked alongside staff engineers to develop solution proposals and improvement plans
- Compiled a list of chemicals to aid in single source identification and product mapping

Livingston, NJ

June 2016 – Aug. 2016

Logistics Analyst Intern in Logistics Department

- Analyzed approximately 30 freight abnormal reports per week and contacted truck companies to find out root problems
- Researched rail and truck transportation routes and expanded the freight rate comparison spreadsheet to identify optimal route based on cost, location, and time

Center for Structured Organic Particulate Systems (C-SOPS)

Undergraduate Research Assistant | Advisor: Fernando Muzzio

- Performed various tests such as shear cell, wall friction, and impedance to research powder characterizations for pharmaceutical laboratories
- Interpreted and analyzed qualitative results of materials properties
- Improved the stability and efficiency of powder flow during formation of tablets

Piscataway, NJ

April 2015 – June 2016

LEADERSHIP AND DEVELOPMENT

Whirlpool BUILD (Bridging, Unity, Inclusion, Leadership, and Diversity) Externship

Engineering Extern

- A conference style program designed to identify and build a pipeline of diverse talents through interactions with corporation and engineering leaders. Activities include learning about LEAN manufacturing, concept of sustainable appliances, and company values and applying them to case studies, challenges, and projects
- Gained first-hand case study experience as a commodity manager and learned about strategic sourcing selection
- Completed an innovative challenge and presented a full business plan and value proposition on a team of four

St. Joseph, MI

Aug. 2015

Society of Women Engineers

Mentor

- Support the transition of a first-year engineer by meeting with her once a week, providing personal and academic guidance, and familiarizing her with campus resources
- Participate in SWE night by hosting high school juniors and seniors to sleep over for one night and introduce them to Rutgers and the college life

Piscataway, NJ

Sept. 2014- Present

SKILLS

- **Language:** Chinese Mandarin (Native)
- **Computer:** Aspen, Thermosolver, AutoCAD, MATLAB, Maple, Adobe Photoshop, Adobe Premiere, and Microsoft Office

BRANDON KINARD
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Maplewood, New Jersey 07040
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bkinard27@gmail.com

Professional Summary:

Efficient and responsible individual looking for any computer engineering related experience. Organized and enthusiastic, very excited to meet new people and learn new skills that will further my career but also make me a more well rounded individual.

Skills:

- Inventory management
- Payment processing
- Accurate money handling
- Strong analytical skills
- Computer proficiency
- Adaptability
- Friendly demeanor
- Excellent in math and science

Work History:

Cashier

Shoprite- Hillside, NJ

06/2016-08/2016

- Learned how to deal with customers in a way that was kind and caring
- Gained a greater appreciation for small details and organization

Production Assistant

Top Hat and Tails- Maplewood, NJ

07/2013 - 08/2015

- Greeted customers promptly
- Created attractive displays to promote items
- Processed customer returns
- Assisted on sales floor as needed to maintain service standards
- Described products and services in detail.

Tutor

Elite Tutoring- Maplewood, NJ

07/2015 - 08/2015

- Helped others in preparation for SAT
- Taught different problem-solving techniques and strategies
- Analyzed passages and extracted the important information

Education:

Bachelor of Science: Engineering

Rutgers University: School of Engineering - Piscataway ,08854, NJ

09/2015 - present

- Cumulative GPA: 3.024, 58 Degree Credits earned
- Made Dean's list for the Spring 2016 Semester
- Member of MEET(Minority Engineering Educational Task)

High School Diploma
Columbia Senior High School-Maplewood, 07040, NJ

09/2011 - 09/2015

Accomplishments

- Honor Roll Recognition Award
- Member of National Society of High School Scholars
- Recognized as a Columbia High School Scholar
- Recognition Award for Outstanding Achievement and Performance

Daniel King

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Objective Detail-Oriented and highly- motivated employee looking to leverage my abilities as a sales representative in your company. I am equipped with the versatility and fortitude that will make me capable of achieving company goals.

Education **New Jersey Institute of Technology (NJIT), Newark, NJ**
B.S. Chemical Engineering, Expected Graduation: Fall 2018
GPA: 3.33

Essex County College (ECC), Newark, NJ
A.S. Engineering, Graduated Spring 2015
GPA: 3.1

Honors/Awards ECC Honors Student, Dean's List

Computer Skills Proficient: MS Word, MS Excel
Working Knowledge: Netbeans, C++, Java, Photoshop, AutoCAD

Work Experience

2016 – Present **Copy and Print Associate, Staples, Vauxhall, NJ**

- Performed numerous office jobs varying from simple prints to large corporate projects
- Developed a stronger sense of prioritization of tasks

2013 – Present **Waiter, Verjus, Maplewood, NJ**

- Supervised and expedited tasks going in and out of the kitchen.
- Developed strong multi-tasking and communication skills

Summers of 2014-2015 **Lab Associate, Stevens Institute for Technology, Hoboken, NJ**

- Received training in Lab Safety & Environmental procedures
- Operated ARES Auxiliary and Capillary Lab equipment
- Prepared Polymer Material samples for High temperature testing
- Worked in a lab team as well as alone on individual tasks
- Performed daily tasks including recording Lab Results, theorizing reasons for deviations, and writing a report

Summers 2006- 2013 **Manager, Maplewood Community Pool, Maplewood, NJ**

- Supervised over maintenance and training new staff; responsible for opening and closing down the facilities.
- Oversaw deliveries and application of chemical substances used in and out of the pool.
- Promoted to Manager after 4 consecutive summers of employment

Professional Affiliations AiChe, NSBE, DECA Collegiate Member, and a proud LSAMP partner

Extracurricular Activities

- Math and Physics Club at ECC
 - Negotiated sponsorship from University Centre for the club
- Engineering Club at ECC
 - Vice President

Chemical/

~~REFINERIES~~

REFINERIES

Surya kumar

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EDUCATION

Masters of Science, Material Sciences and Engineering New Jersey Institute of Technology, Newark, NJ, USA	December 2016
Masters of Science, Mechanical Engineering Technology, Dublin Institute of Technology, Dublin, Ireland	November 2014
Bachelor of Technology, Mechanical Engineering, Jawaharlal Nehru Technological University Kakinada, India.	May 2012

PROFESSIONAL EXPERIENCE

Associate Engineer, VTC Surface Technologies (P) Ltd, Visakhapatnam, India May 2012-June 2013

- o Performed Management and Evaluation of Materials and analyzed Lab Reports.
- o Generate FEA Models using ANSYS FLUENT/Solid works.
- o Resolved quality issues of capability, tolerancing, implementing action plans and providing resources.
- o Interpret Engineering Blueprints as per GD & T standards and reduced waste basing on the ISO 9001 standards.
- o Assisted in Preparing Budgets, Documents, reports and supported technical analysis.
- o Supported Continuous Improvement by working on quality audits and waste identification on manufacturing shop floor.
- o Performed Surface Treatments using KUKA 6 AXES Robot using automated programming.
- o Worked on machine tooling and operation of CNC Lathe, Sheet Metal and High Temperature furnaces.
- o Implemented lean manufacturing, 6 sigma methodologies, Simulation, manufacturing process design and continuous improvement, Kaizen, 5S and cycle-time reduction strategies.

Design Intern, Ad-Don, Dublin, Ireland May 2014- February 2015

- o Performed feasibility studies, assessed value proposition, created project plans and Implemented Improvements.
- o Worked on developing the 3D CAD Models using SolidWorks for different projects.
- o Conducted failure / root cause analysis on electronic / mechanical components.

Research Engineer, CNBM New Energy Materials Research Center, NJII, Newark, NJ February 2016- Present

- o Developing window layer Film deposition using custom designed vacuum chamber.
- o Performing Profilometry for semiconductors using Optical analysis.
- o Calculation and programming of mathematical parameters and programming using MATLAB and LabVIEW.
- o Deposition of thin-films

TECHNICAL SKILLS

<u>Engineering Software</u>	<u>Manufacturing and Design</u>	<u>Statistics Package</u>	<u>Programming Language</u>	<u>Microsoft Office</u>	<u>Foreign Languages</u>
ANSYS Fluent, SolidWorks, MATLAB, Simulink, LabVIEW	Plant Design, Pro-DFM, Lean Manufacturing Methods,	Minitab	C++, HTML	Word, Excel, Access, PowerPoint, Publisher	French(Intermediate),German (Intermediate),Telugu, Hindi, Tamil

KEY COURSES

Mechanical and Industrial

Finite element Analysis, Design Manufacturability, Computer Modeling, Renewable Energy Engineering, Statistical Analysis.

Materials Engineering

Semiconductors, Applied Surface Engineering, Vacuum Technology, Composite Materials, Materials Diffusion, CVD,SEM.

PROJECTS

- o Hollow Cathode Sputtering in low Pressure vacuum April - August 2016
- o Design for Manufacturability- Part and cost reduction January – May 2016
- o Computational fluid dynamics Analysis on fluid flow in Internal Combustion Engine (Master's Thesis - Dublin Institute of Technology, Ireland) May - September 2014
- o Design and Fabrication of Hovercraft April 2012

Brandon A. Lungo

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Education

- Rutgers, The State University of New Jersey** August 2015- Current
Bachelors of Engineering (BSe) – Biomedical Engineering and Genetics majors- Tissue Engineering focus
- Coursework inclined towards engineering - Calculus I-IV, Classical Mechanics, Physics I-III, Developmental Genetics and Bioinformatics, Transport Phenomena, Numerical Modeling, Organic Chemistry, CAD, Biomaterials, Computer Programming (mainly MATLAB, Mathematica, and Python).
 - Developed a functional hip replacement from scratch as part of a Mechanic final project.
 - Working on developing a functional bioreactor for Senior design project.
- County College of Morris** August 2012- May 2015
Associate of Science – Engineering Science
Associate of Science – Science and Mathematics

Experience

- Rutgers, The State University of New Jersey** Spring 2016 - Current
-Lab Researcher
- Performed research centered on Sirtuin class protein interactions, use of Bio-Linux OS through terminal for processing, analysis, and presentation of Chromatin Immuno-precipitation sequencing (ChIP-seq) data. Applied Python programming for data processing and analysis, data management. Use of ChIP-seq terminal programs such as Macs2, SAMtools, and deepTools for data processing. Wet lab experience and handling of model organisms, laboratory procedures include cell assays, ChIP-seq, and Cre-lox.
- Staples Inc. Store #1609, Budd Lake, NJ 07828** July 2012 – January 2014
-Staples EasyTech On-Site Technician
- Performed and managed computer intake, repair, and sales of both hardware and software.
 - Extensive knowledge of advanced computer/peripheral repair, custom building and network setup.
 - Promoted in first few months from associate to technician due to displayed skill.

Volunteer Work

- County College of Morris Student Government Association (SGA)** September 2014 – May 2015
-Student Government Senator
- Management and coordination of campus events, discussion and implementation of campus reform, inauguration of student leaders, voicing the opinion of the student body through data collection, processing, and student affairs.
- County College of Morris Institute for Electrical and Electronics Engineers (IEEE) Club** September 2013 – May 2014
-Student Organization Secretary and Treasurer
- Club fund and fundraising management, field trip organization, coordination of events with other clubs, and record keeping.

Special Skills

Fluency in English and Spanish, conversational and literate in Japanese. Extensive experience with MATLAB and Python, adept with Wolfram Mathematica, HTML coding, AutoCAD 2D/3D, Autodesk Inventor and Maya, and SolidWorks. Extensive use with all programs in the Microsoft Office suite with 80 wpm typing speed.

- References furnished upon request!

Felix Milman

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<http://www.linkedin.com/in/femilman>

OBJECTIVE To utilize the skills developed as a research assistant and as a student to an internship or co-op opportunity within an engineering firm.

EDUCATION **Rutgers University**, New Brunswick, New Jersey
▪ B.S. Chemical Engineering (3rd Year) Sep 2014 – May 2018
• Cumulative GPA: **3.878**

RESEARCH EXPERIENCE **Rutgers University**, Department of Chemical and Biochemical Engineering
▪ Undergraduate Research Assistant Jan 2017 – May 2017
▪ **Project:** Hollow Graphene Oxide with Silicon Nanoparticles for Lithium-ion Batteries - Dr. Maria Silvina Tomassone (Supervisor)
• Formulated batch samples of Graphene Oxide emulsions for laboratory analysis.
• Prepared sample stubs for Scanning Electron Microscopy imaging.
• Conducted particle size analysis using a Beckman-Coulter Laser Diffraction apparatus, and membrane thickness analysis using ImageJ software.
• Showcased my research at the Chemical and Biochemical Engineering Department's Annual Undergraduate Research Day Poster Competition.

SKILLS Aspen Plus, MATLAB, Microsoft Word, Microsoft Excel, Microsoft PowerPoint

ACADEMIC AWARDS ▪ Dean's List, Fall 2014 through Fall 2016
Rutgers University, New Brunswick

RELEVANT COURSEWORK

▪ Completed	▪ In Progress
• Chemical Engineering Analysis II	• Design of Separation Processes
• Thermodynamics II	• Mechanical Properties of Materials
• Transport Phenomena I (Fluid Mechanics)	• Transport Phenomena II (Fluid Dynamics)
• Organic Chemistry II	• Organic Chemistry Lab
• Statistics I	• Chemical Engineering Kinetics

WORK EXPERIENCE (MOST RECENT) **Eye Level of Dayton Learning Center**, Dayton, NJ (P:609-662-4625)
▪ Mathematics Tutor Apr 2015 – Sep 2015
• Assisted students struggling with important concepts in Algebra and Geometry through both one on one and group tutoring sessions.
• Managed multiple clerical tasks such as handling important student paperwork, clarifying parent questions, answering phone calls, and organizing office supplies.

NADEEM RAHMAN

201-914-7407

60 Maysenger Rd, Mahwah, NJ, 07430

nr272@njit.edu

OBJECTIVE

As a recent graduate I am looking to acquire a position that will harness my technical skills in design and development, as well as offer opportunities for leadership and growth through the application of engineering principles in complex projects and challenging problems.

EDUCATION

New Jersey Institute of Technology (NJIT), Newark, NJ

M.S.: Engineering Management

May 2018

B.S.: Mechanical Engineering - GPA 3.63

December 2016

Languages: English & Afrikaans (Dutch)

Course Work: Engineering Design, Invention, Thermodynamics, Fluid Mechanics, Heat Transfer, Machine Design, Kinematics of Machinery, System Dynamics, Vibration Analysis, Stress Analysis, Project Management, Materials & Processes, Management Sci.

Relevant Projects/Labs: I.C Engine Performance, Performance Testing of Vapor Compression Refrigeration Cycle, PID & PLC controllers, CNC Methods, Tool Geometry, System of Fits, Vibrational Analysis, Transmission and Bearing Design

Technical Skills: Creo, SolidWorks, AutoCAD, MATLAB, C++, Microsoft Office: Excel, Power Point, Word and Project

ENGINEERING EXPERIENCE

Automated Motorcycle Kickstand, (Senior Design Project) – Project Lead

July 2016 – August 2016

- Searched and verified patents such that the intended design did not infringe on any existing patents
- Modeled and designed parts for an automated hydraulic kickstand using Solidworks software
- Conducted an extensive quality and cost analysis of the competitors in the market to verify the feasibility of the project
- Wrote a technical report on the project details including materials, design calculations, fluid analysis, optimization, kinematic analysis, cost of production, Finite Element Analysis, detailed drawings, and a motion study of the assembly in operation
- The projected yielded successful results, as it did not infringe any existing patents, the design specifications were met and the part did not fail under the tested loads.

Eastern Morris Cranes Co. Ltd - Trainee Engineer Internship

June 2010 – July 2010

- Crane manufacturing process of single and double girder overhead cranes beginning with drawing design evaluation, CNC machining of sheet metal components, welding, cutting and burning alignment, electric motor installation and wiring, testing and finishing. Site installation and inspection to meet the safety standards. Load testing using a laser beam deflection test.
- All arenas of the manufacturing processes were completed to the senior engineer's satisfaction and I was awarded a certificate of successful completion of the internship program.

PROFESSIONAL/WORK EXPERIENCE

Iqra Darul Ehsan, Suffern, NY- Math/Science Teacher

September 2016 – Current

- Teaching of grade 7 and 8 math and science in a private school setting in a class of about 10 students
- Enhancing students' abilities to think independently and meet challenging problems by using a thoughtful process
- Designed syllabi for grades 7 and 8 classes in preparation for the Terra Nova State examination
- Learned about safety precautions for on-site operations and classroom procedures
- Received recognition from students and peers on effectiveness of teaching methods utilized.

Bergen Tutoring, Hillsdale, NJ – Math/Science Tutor

July 2016 – Current

- Assisting students with difficulties in mathematics and science by assessing their educational needs and implementing a structured lesson that breaks down fundamental concepts in a manner that is easy to grasp.
- On average I have improved students scores by one letter grade every marking period

New York Sleep Disorder Center, Bronx, NY – Administrator

September 2013- February 2016

- Developed and executed marketing strategies which attained an increase in the patient referral base by over 75%.
- Managed the foundation phase of a novel electronic medical records program and addressed technical difficulties and training tutorials to relevant staff to ensure operational excellence.
- Managed a team of 5 employees who were in charge of patient care and scheduling

Print and Media Specialist, Alison's Montessori, Mahwah, NJ,

September 2012- August 2013

- Utilized specialized printing and cutting machinery to produce customized educational materials to meet the needs of Montessori curriculum classrooms
- Mastered the machine maintenance, and troubleshooting of HP industrial printers and laminators.

PROFESSIONAL AFFILIATIONS & INTERESTS

ASME- member, NJIT MSA – member, NSBE – member, SHPE – member

Automotive part design, fabrication, and modification

Independent study of MIT Opencourseware in Aerodynamics, Precision Machine Design, and Vibrational Analysis

2 stroke 250cc Motorcycle Racing

Elizabeth Salmi

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OBJECTIVE

To attain a job in the field of environmental science that utilizes my engineering education and keen interest in environmental protection and site remediation.

EDUCATION

Rutgers University, New Brunswick, NJ

Expected Graduation May 2018

School of Environmental and Biological Sciences

- Bachelor of Science in Bioenvironmental Engineering from Rutgers University School of Engineering and
- Bachelor of Science in Environmental Science from the School of Environmental and Biological Sciences.
- Fourth Year student in 5-year dual degree program; GPA: 3.3.

RELEVANT EXPERIENCE

United States Environmental Protection Agency – Region 2

Emergency and Remedial Response Division

Student Trainee (Engineering)

Summer 2016-Fall 2016

- Synthesized assessments of the success of the remedial actions for contaminated sites across USEPA Region 2 (including Manufactured Gas Plant (MGP) sites)
- Developed decision documents summarizing the site history and synthesized assessments
- Located and mapped potentially radioactive sites using Google Earth
- Using ArcGIS, mapped the residences and resources, e.g., potable water sources, wetland mileage, surrounding contaminated sites
- Determined if the resources surrounding contaminated sites make the sites eligible for Superfund consideration

Rutgers University Queens Chorale

Treasurer (Fall 2016-Present); Vice President (Fall 2015-Summer 2016)

- Work with other women on a diverse, student-run executive board
- Manage finances to ensure enough money for the director, accompanist, new sheet music, performance dresses, etc.
- Review and renew contracts to ensure rehearsal and performance space; submit payment documents to the University
- Successfully applied for and appealed student government funding decisions to obtain money from the University for the choir
- Organize performances both at Rutgers and off-campus.
- Interviewed potential piano accompanists to work with the choir

RELATED COURSEWORK

Mechanics of Solids, Physical Principles of Environmental Science, Fluid Mechanics (including Lab), Chemical Principles of Environmental Science, Biological Principles of Environmental Science, Engineering Graphics, Design of Solid Waste Treatment Systems, Hydraulics, Water Chemistry, Unit Processes of Environmental Science (including Lab), Hazardous Waste Treatment Engineering, Environmental Fate and Transport.

SKILLS

Technical: Proficiency in MATLAB, Maple, AutoCAD, EPANET, ArcGIS, VisualMINTEQ, and Microsoft Office (Word, Power Point, Excel [including solver]) programs.

Language: Native English speaker; basic Spanish writing skills.

AWARDS

Dean's List Fall 2016 and Fall 2013; Roselle Catholic High School Valedictorian, Class of 2013.

Daniel Stevens
(856) 905-5782 • djs447@scarletmail.rutgers.edu
729 Cedar Ave • Haddonfield, NJ 08033

MEH
BIB

EDUCATION

Rutgers University – New Brunswick, NJ
BS, Mechanical Engineering
Minors in Math and Computer Science

May 2019
GPA: 3.837

ACADEMIC PROJECTS

Construction Project

October 2016

- Developed 3D designs for a series of parts using SolidWorks
- Utilized a laser cutter to create and etch these parts out of wood
- Assembled these components into a final product and presented the project to my colleagues

Automatic Door Opener

November 2015

- Collaborated with a team to construct a device meant to lock and unlock one's door through texting
- Designed a base to mount this device to a dorm door
- Demonstrated this project's use and functionality to an audience of faculty and our peers

EXPERIENCE

Scholarship Chair – Theta Tau: Professional Engineering Fraternity

December 2016 - Present

- Coordinated events encouraging members to collaborate and study together
- Motivated members to achieve academically by setting goals and creating incentives
- Compiled academic opportunities and scholarships for the benefit of members

Class Representative – Engineering Governing Council

September 2015 - Present

- Relayed information between members of my class and the council
- Represented my peers by voting on pertinent legislation
- Assisted in planning and scheduling events for the student body
- Participated actively in regularly scheduled meetings

Head Lifeguard – Erlton Swim Club/Perfect Pools Inc.

May 2011- August 2016

- Performed general maintenance to the pool and associated machinery
- Monitored the grounds and swim area for potential hazards
- Rescued swimmers in distress and completed the necessary first-aid procedures
- Trusted with opening and closing the facilities

Treasurer – Student Council

September 2011 – May 2015

- Managed club-wide finances and developed a budget for committees
- Organized charity events, one of which raised over \$24,000
- Oversaw work distribution among the treasury committee

HONORS AND ACHIEVEMENTS

- Member of the Engineering Honors Academy
- Dean's List
- Recipient of the James Dickson Carr Scholarship
- AP Scholar With Distinction

September 2015 – Present

Fall 2015 – Fall 2016

September 2015

June 2015

PROFESSIONAL SKILLS

- Skilled in both MATLAB and Java
- Proficient in using SolidWorks
- Experienced with Microsoft Office

MAX TWERSKY
Mtwersky95@gmail.com

Campus Address
14 Hartwell Street,
New Brunswick, NJ 08901
609-902-7130

Home Address
518 Dutch Neck Road,
East Windsor, NJ 08520
609-443-7408

OBJECTIVE

Seeking an entry-level job or internship.

EDUCATION

Rutgers University, New Brunswick, NJ
Bachelor of Science, Industrial Engineering, expected graduation May 2017
Six Sigma Green Belt Certified

RELATED COURSES

- Work Design and Ergonomics
- Probabilistic Models
- Engineering Probability (Applied Statistics and Probability for Engineers)
- Deterministic Models
- Industrial Engineering Lab (Microsoft Excel and Visual Basic)
- Engineering Design
- MATLAB for Engineers
- Quality Engineering
- Engineering Graphics (AutoCAD)
- Elements of Electrical Engineering
- Calculus 1, 2, 3, 4
- Production Analysis
- Simulation Models
- Facilities Layout
- Chemistry 1, 2
- Physics (4 semesters, kinematics, electromagnetism)
- Scientific and Technical Writing
- Engineering Economics
- Accounting for Engineers
- Dynamics and Statics

ACADEMIC PROJECTS

Senior Design Project, May 2016 – December 2016

- Designed an anticipatory shipping algorithm in MATLAB to predict hypothetical customer transaction history
- Project was based on forecasts and time series analysis
- Individual code was approximately 200 lines long

Quality Engineering Project, October 2016 – December 2016

- Designed a free throw shooting experiment to determine the most optimal method to shoot free throws
- Found factors which determine accuracy and determined which factors were significant using confidence intervals in Minitab

Work Design and Ergonomics UPS project, September 2014 – December 2014

- Was elected group leader to lead a team of industrial engineering students to make a system more efficient
- Found an inefficient system in the UPS facility in Long Island, New York.
- Analyzed the customer facility process and identified inefficiencies. Designed a more efficient package transport system for the tram cars in the facility.
- Reduced the amount of time the tram car drivers worked per night in theory from 8.5 hours to 7 hours.

Engineering Graphics AutoCAD project, December 2015

- Designed a large and detailed library in AutoCAD
- Drew over 100 doors, 100 windows, and walls to the desired specifications
- Able to utilize the commands of move, copy, rotate, mirror, erase, and explode to complete the task

SKILLS

Technical: Microsoft Office (Word, Excel), MATLAB, Visual Basic, AutoCAD, Minitab, Arena
Six Sigma Green Belt Certified

BHAUMIK VYAS

209, Hamilton street, New Brunswick, NJ, USA | (224) 830-6974 | bhaumik.vyas@rutgers.edu

EDUCATION:

Rutgers University, New Brunswick, NJ September 2016 – May 2018

MS-thesis, Chemical Engineering GPA: 3.33

Courses: Lean-six sigma, Advance Transport Phenomena, Advance Chemical Engineering Thermodynamics, Pharma Unit Operations, Analytical Methods, Kinetics, catalysis and reactor design.

Dharmsinh Desai University, India July 2010 - May 2014

Bachelor of Technology, Chemical Engineering GPA: 8.67/10

Courses: Heat and mass transfer, Fluid flow operations, Computer Aided Design, Environmental engineering, Chemical system modelling, Plant economics and design, Process control.

WORK EXPERIENCE:

Gujarat State Fertilizers and Chemicals Limited, Vadodara, India May 2014 - August 2016

Plant engineer, Caprolactam plant

- Involved in process related troubleshooting, waste reduction, process safety and environmental concerns for a lean, smoother and efficient operation of the plant.
- Efficiently maintained and monitored the plant parameters, specific consumption of raw materials and product quality on a continuous basis for achieving the agreed production target of 22000 MT in a year.
- Consistently maintained the product quality of caprolactam to around 20,000 PN number.

Gujarat State Fertilizers and Chemicals Limited, Vadodara, India February 2014 - March 2014

Intern, Ammonia plant

- Understanding the Linde-Ammonia manufacturing concept.
- Understanding Linde air separation unit, plant process, plant design, calculations and troubleshooting of problems.

Transpek Industry Limited, Vadodara, India December 2013 - January 2014

Intern, Sulfuric acid plant

- Understanding the sulfuric acid manufacturing process, material balance, energy balance and equipment designs for a project on process design of sulfuric acid plant.

RESEARCH EXPERIENCE:

Rutgers University, New Brunswick, New Jersey January 2017-Present

- Working on conductivity and viscosity of Ionic polymers and Ionic liquids under professor M. Hara.
- Observing conductivity behaviour of Ionomer SPS-Na (3.6%) and Ionic liquid BMIM-PF₆ dissolved in Tetrahydrofuran and Dimethyl formamide solvents respectively.

Dharmsinh Desai University, Nadiad, India January 2013 - February 2013

- Worked on 'catalysis and its application'.
- Assisted a Ph.D student for synthesis, analysis, applications of Hydrotalcite catalyst and study of technical papers.

PROJECTS:

- Modelling of cellulose hydrolysis by processive cellulases:
Developed a MATLAB code to work on a kinetic model of cellulose hydrolysis by processive cellulases to explain the difference in experimental behaviour for cellulose I (native cellulose) and cellulose III (non-native) which was shown by multiple changes in rate constants.
- Process design of a sulfuric acid plant for a capacity of 150 MT/day:
This included market analysis of sulfuric acid, selection of efficient process, material balance calculations, energy balance calculations, equipment design, cost estimation and payback period calculations.

SKILLS:

Technical: Lean-six sigma yellow and green belt, MATLAB, LabVIEW, ASPEN HYSYS, C, C++, MS office.

Soft Skills: Languages (English, Hindi, Gujarati), strong interpersonal and communication skills, problem-solving skills.

ACTIVITIES:

- Learning assistant at process engineering laboratory, Chemical engineering department, Rutgers University.
- Volunteer at International Student Orientation, Rutgers University.

Junhong Yu

PERSONAL DETAILS

MAILING ADD: 582 Forest St. Kearny, NJ 07032

E-MAIL: johnny.yu03@gmail.com

LindedIn: <https://www.linkedin.com/pub/junhong-yu/43/690/b39>

CELL: (801)554-9809

EDUCATION BACKGROUND

MS, Electrical Engineering

New Jersey Institute of Technology – Newark, NJ

May 2017

BS, Electrical Engineering – GPA 3.14

University of Utah - Salt Lake City, UT

Aug 2011- May 2015

BS, Electrical Engineering

Northeastern University – Boston, MA

May 2011 - Aug 2011

SOFTWARE SKILLS

- | | | | |
|----------|-----------|----------|-------------|
| • Pspice | • LTspice | • C++ | • Java |
| • Matlab | • Verilog | • dSPCAE | • PowerWord |

RELATED COURSES

- | | |
|---|------------------------------|
| • Power Electronics Foundation | • Control of Electric Motors |
| • Power System Protection | • Renewable Energy System |
| • Economic Control of Interconnected Power System | • Power System Analysis |

RELATED INTERNSHIP

07/2015-08/2015 **Xiamen Minghan Electric Co., Ltd**

- Piece by piece comprehend mid-voltage and vacuum circuit breakers assembly process. Know the factory characteristic test process for final products and incoming parts.

07/2014-08/2014 **Fujian Shuikou Power Generation Co., Ltd.**

- Familiarized myself with the hydropower generation process, the hydropower plant main electrical wiring, DC power systems, operation of hydroelectric generating set, transformer operation, 220 kV equipment operations, and the composition, basic principle, and operation method of the computer monitoring system.

07/2013-08/2013 **State Grid Fujian Electric Power Co., Ltd., Maintenance Branch**

- Took a field visit to Fuzhou 500 kV substation and learned the main connection, layout of the main electrical equipment, and the operating & control of the substation.
- Familiarized myself with the composition of the substation electrical equipment, the layout of power distribution equipment and its characteristics, the layout of the control panel, protect screen, and the main control room.

SENIOR PROJECT

“Teaching “The Duck” to Fly in Utah” – Because solar power would have a installed capacity in the future, which may have a big impact to the power system during sunset. Our team studied Utah cultural, political, environmental and economic factors related to generation and load; generates a software model that captures these factors to forecast future power system load for Rocky Mountain Power.

Electrical Engineering

Electrical Engineering

Electrical Engineering is a branch of engineering that deals with the study and application of electricity, electronics, and electromagnetism. It is a multidisciplinary field that combines principles of physics, chemistry, and mathematics to design and develop electrical systems and devices.

The electrical engineering profession is diverse and includes a wide range of specialties. Some of the most common areas of focus include power systems, control systems, signal processing, and telecommunications. Electrical engineers are also involved in the design and development of consumer electronics, such as smartphones and computers.

Electrical engineering is a highly technical and demanding profession that requires a strong foundation in mathematics and science. It is a field that is constantly evolving, with new technologies and applications emerging all the time. As a result, electrical engineers must stay up-to-date on the latest developments in their field.

Electrical engineering is a highly competitive field, and it is important for students to have a strong academic record and to gain practical experience through internships and co-op programs. Many electrical engineers also pursue advanced degrees, such as a master's or doctorate, to further their education and expertise in their field.

Electrical engineering is a highly rewarding and challenging profession that offers a wide range of career opportunities. It is a field that is essential to the modern world, and it is a profession that offers a high level of job security and growth potential.

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Denny Zheng

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R+D

EDUCATION AND CERTIFICATION

Rutgers University, School of Engineering
Bachelor of Science in Mechanical Engineering

New Brunswick, NJ
Expected Graduation: May 2018

Lean Six Sigma
Yellow Belt

Rutgers University
Certified April 2017

EXPERIENCE

Undergraduate Research: Mechanical Engineering
Research Assistant

Rutgers University
September 2016 - Present

- Help lead a team of 6 in designing dragonfly drone device capable of flight out of balsa and bass wood
- Simulate insect flight according to MATLAB data
- Utilize efficient manufacturing techniques using laser cutter, mill, and lathe to produce our model

Chemical Engineering Car Team
Vice-President and Design Leader

Rutgers University
September 2016 - Present

- Design the gear system, and work with team to formulate the frame and design of the car
- Reduce the final weight by 26% to acquire faster speed and acceleration
- Coordinate with team members weekly to meet deadlines and apply adjustments to the project
- Received 7th place out of 21 in AIChE Chem-E-Car regional competition 2017

American Institute of Aeronautics and Astronautics
Design and Manufacture

Rutgers University
May 2016 - Present

- Participating in 2017 Undergraduate Team Aircraft Design Competition in Arizona
- Train new members in using heavy machinery such as mill, lathe, and laser cutter
- Assign project designs that satisfy all team members' interests and priorities
- Collaborate with team to create carbon fiber wing ribs
- Create payload casing for 2017 competition airplane, using carbon fiber glass and wood
- Manufacture prototype airplane wings with Foamular foam by hot wire cutting

Formula SAE
Design and Manufacture

Rutgers University
September 2016 - Present

- Assist in designing the most efficient sprocket using Optimum Lap and SolidWorks
- Use the mill and lathe to manufacture parts for the car
- Help in creating the body using carbon fiber composites
- Work with a team of 30+ people to ensure maximum performance

ORGANIZATIONS AND SKILLS

Engineers of The Future

Rutgers University
June 2014 - Present

- 1 of 72 students selected to participate in a summer enrichment program to provide exposure of first year curriculum, research projects, university resources, and community of highly driven engineering students.
- Participate in many professional and academic workshops throughout the year.

Toastmasters Internationals

Rutgers University
January 2017 - Present

- Provide a supportive and positive environment in which members are empowered to develop communication and leadership skills, resulting in greater self-confidence and personal growth.

Skills: MathWorks: MATLAB, CAD: SolidWorks, Microsoft Office Excel, C++, Computer Numerical Control (CNC)

