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Jovaun Jackson

355 Old Tarrytown Rd, APT# 507
White Plains, NY 10603

EDUCATION

Northeastern University
Boston, MA
Sep 2013 – May 2018

Candidate for B.S. in Mechanical Engineering, Minor in Computer Science **GPA:** 3.89

AFFILIATIONS: Tau Beta Pi, Pi Tau Sigma, University Scholar's Program, NSBE, Black Engineering Student Society (Technical Outreach Chair, 2014-2015)

COURSES: Machine Design, Heat Transfer, Fluid Mechanics, Control Systems, FEA Mechanics of Materials, Dynamics and Vibrations, Material Science, Capstone

EXPERIENCE

Instron
Mechanical Design Co-op
Norwood, MA
July 2016 - Dec 2016

I designed, analyzed, and assembled unique solutions to meet customer requirements in a fast-paced environment. Projects ranged from simple adapters to complex fixtures.

- Acted as project manager for 38 delivered custom products, while assisting in others
- Quoted, designed, sourced material and selected finishes for components and projects
- Utilized 3d printer to prototype and validate proof of concept designs
- Created detailed models of systems and components using SolidWorks and EPDM
- Created assembly drawings and installation instructions for manufacturing and customers
- Performed risk analysis of components using SolidWorks FEA tool and physical testing

GE Aviation
Infra-Engineering Co-op
Bohemia, NY
July 2015 - Dec 2015

As the process owner for the site's chemical management, I worked closely with an interdisciplinary internal team as well as several vendors to ensure continued availability.

- Coordinated with 15 suppliers while ensuring compliance and timeliness
- Developed and implemented a new chemical management process for the entire site
- Reduced critical chemical shortages by more than 80%
- Designed test methods and a fixture to stake PCB's with high repeatability
- Drafted detailed wire harnesses in AutoCAD to be made by outside vendors

Whitford Research Group
Undergraduate Researcher
Boston, MA
June 2014 – Aug 2014

I developed 4 computational models for protein folding simulations in addition to running, and analyzing data from over 20 biomolecule systems in search of a more accurate model.

- Developed shell and Perl scripts to control simulations and analyze data
- Brought folding behavior 40% closer to mimicking the natural phenomena
- Validated accuracy of simplified protein model in depicting large-scale dynamics
- **Publication**: Jackson, J.; Nguyen, K.; Whitford, P.C. Exploring the Balance between Folding and Functional Dynamics in Proteins and RNA. *Int. J. Mol. Sci.* 2015, *16*, 6868-6889

SKILLS & INTERESTS

- **Software**: SolidWorks (CSWA), EPDM, GitHub Client, MATLAB, AutoCAD, ANSYS, LabVIEW
- **Languages / Frameworks**: JavaScript (jQuery), Python, HTML, CSS
- **Manufacturing**: 3D Printing (SLA/FDM), Hand Tools, Electromechanical Assembly, Soldering (novice)
- **Interests**: Web Development, Modeling and 3D Printing Props, Hackathons, Weightlifting, French Language, Reading

AWARDS & HONORS

- **University Scholar**: Earned full-tuition scholarship awarded to top 1% of Northeastern's students on basis of academic achievement, leadership and service
- **Hack UMass Finalist (2016)**: Ranked within the top 8 of 92 teams for our hackathon project, "Emoji Home"