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Jovaun Jackson

315 Huntington Ave, APT# 3A
Boston MA, 02115

EDUCATION

Northeastern University
Boston, MA
Sep 2013 – May 2018

- B.S. 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), ASME
- **Courses:** Machine Design, Thermodynamics, Fluid Mechanics, Control Systems, Mechanics of Materials, Dynamics and Vibrations, Material Science, Finite Element Analysis, Measurements and Analysis, Circuits, Intro to C++/MATLAB

EXPERIENCE

Instron
Mechanical Engineering Co-op
Norwood, MA
July 2016-Present

- Design custom electromechanical systems for unique customer applications
- Lead the development of a variable size, snap-fit, LVDT mounting fixture
- Rapidly design, fabricate, and assemble plastic and metal fixtures
- Design with consideration for manufacturability, assembly, and GD&T
- Manage 15+ concurrent projects throughout development lifecycle
- Perform risk analysis of accessories using SolidWorks FEA tool and physical testing

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

- Reduced critical chemical shortages by more than 80% by developing and implementing a new chemical management process
- Designed test methods and fixtures to stake PCB's with high repeatability
- Drafted detailed wire harnesses in AutoCAD to be made by outside vendors
- Coordinated with 15 suppliers while ensuring compliance and timeliness
- Participated in Lean Action Workouts and other process improvement events

NSBE - Northeastern
Technical Outreach Chair
Boston, MA
May 2014 – May 2015

- Developed an engaging game design and programming curriculum for students
- Taught weekly classes on game design using Stencyl to K-12 students
- Taught weekly classes on MS Office for adults reentering the work force
- Planned a community outreach event with a local school, and trained volunteers
- Coordinated efforts between student groups and professional organizations wishing to serve the community

Whitford Research Group
Undergraduate Researcher
Boston, MA
June 2014 – Aug 2015

- Developed 4 computational models for protein folding simulations
- Brought folding behavior 40% closer to mimicking the natural phenomena
- Validated accuracy of simplified protein model in depicting large-scale dynamics
- Ran and analyzed simulations for over 20 biomolecule systems
- Developed shell and Perl scripts to control simulations and analyze data
- **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 • Solid Edge, Solidworks, AutoCAD, ANSYS, LabVIEW, Android Studio

Programming Languages • Python, HTML, CSS, Javascript, MATLAB

Manufacturing • GD&T, Design for Low/High Volume Manufacturing, 3D Printing (SLA/FDM), Hand Tools, Soldering, Electromechanical Assembly

Interests • French (Intermediate), Weightlifting, Reading, Programming, 3D Printing