

Perry Thomson

Student | Boston University

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WORK EXPERIENCE

Universal Instruments, Conklin NY (Jan–June, 2018)

- Mechanical Engineer Co-Op
 - Designed components and parts for high-level projects
 - Collaborated with team members while serving as the point of contact for additive manufacturing and rapid prototyping
 - Supported the manufacturing department with necessary design and SOP changes

Johnson & Johnson–Depuy Synthes, Elmira NY (July–Dec, 2017)

- Manufacturing Engineer Co-Op
 - Generated testing procedures, process plans and technical drawings for a major New Product Implementation project
 - Streamlined manufacturing systems and workspaces through the creation of 10 new tools and fixtures

Mechanical Engineering Department, Binghamton University NY

- Undergraduate Course Assistant
 - Conducted lab sections, tutored students, and graded papers for:
 - ♦ Computer-Aided Engineering (Fall 2018)
 - ♦ Engineering Statics (Fall 2016)
 - ♦ Programming in MATLAB (Fall 2016)

TECHNICAL PROJECT EXPERIENCE

Minimally Invasive Soft Robot (2020 – Present)

- Developing and designing a soft robot with the ability to perform heart surgery from within the right atrium

Wobble Salt and Pepper Shaker (2020)

- Realized a simple product through prototype stages as well as validation and verification testing
- Incorporated Design for Manufacturing attributes to ensure product could enter mass production stages

Binghamton Hyperloop (2018–19)

- Competed in an annual competition sponsored by SpaceX judged solely on reaching a maximum speed
- Focused on creating frame concepts and prototypes which would integrate each subsystems

LEADERSHIP EXPERIENCE

Boston University FitTreds Outdoor Programs

- Trip Leader (2019–Current)
 - Monitored outdoor trips while keeping groups on schedule and mitigating risks as necessary

Binghamton Hyperloop

- Team Lead (2018–19)
 - Managed a team of 16 students within 5 subteams and placed in the top 20 worldwide
 - Facilitated communication and collaboration between subteams and industry advisors

Theta Tau - Professional Engineering Fraternity

- President (Two terms, 2018)

EDUCATION

Boston University, Boston, Massachusetts

(College of Engineering)

M.S. Mechanical Engineering,
Concentration in Biomechanics
Expected Spring 2021

Current GPA: 3.6/4.0

Binghamton University, State University of New York

(Watson School of Engineering
and Applied Science)

B.S. Mechanical Engineering,
Graduated Spring 2019

Final GPA: 3.4/4.0

Dean's List (Spring 2015,
Fall 2015, Spring 2016, Fall 2018,
Spring 2019)

TECHNICAL SKILLS

Proficient in

- PTC Creo Parametric, Windchill, nTopology
- SolidWorks
- ANSYS Workbench, ANSYS ADPL, COMSOL
- Additive Manufacturing: FDM, SLA, PBF
- MATLAB, Mathematica
- Microsoft Excel, Word, PowerPoint, Project

TECHNICAL COURSES

Product Realization, Polymers and Soft Materials, Simulation of Physical Processes, Additive Manufacturing, Finite Element Analysis, Continuum Mechanics, Fluid Mechanics

HONORS AND AWARDS

Eagle Scout

- Highest rank in the Boy Scouts of America
- Planned, organized, and completed an Eagle service project
- Collaborated with building inspectors, fundraising advisors, and local politicians