

Ryan Callaghan

ryanmcallaghan3@gmail.com | 347-681-0910 | ryancallaghan.github.io

EDUCATION

Stevens Institute of Technology

Master of Engineering, Biomedical Engineering

GPA: 4.0

Bachelor of Engineering, Mechanical Engineering

GPA: 3.98; Honors: Dean's List, President's List, Presidential Scholarship

Relevant Coursework: Biofeedback devices, Biomechanics, BioMEMS, Engineering Design, Intro to BCI, Lean Six Sigma, Medical Device Design & Technology, Probability & Statistics, Python.

Hoboken, NJ
May 2023

May 2022

Staten Island Technical High School

NYC Specialized High School (STEM)

Weighted GPA: 102.11; Honors: President's List, National Honor Society

Relevant Coursework: AutoCAD, Robotics, Russian Language

Staten Island, NY
June 2018

SKILLS & PROJECTS

Technical: Solidworks, Python, Minitab, MATLAB, PLM Systems, Tableau, Creo, Ansys, LabView, Simulink, AutoCAD, Arduino, Microsoft Excel, Microsoft Office, Bluebeam, 3D Printing, Technical Drawing/Drafting, C++,
Certifications: Autodesk AutoCAD Certified, CPR, Lifeguarding/First Aid/ AED Certified

My website ryancallaghan.github.io displays a sample of my academic projects using software such as Solidworks, MATLAB, and Python.

WORK EXPERIENCE

Ethicon Inc. (Johnson & Johnson)

Research and Development Engineer

Contract Position through Actalent

- Used Minitab and Tableau to analyze test data, creating and verifying a new test method.
- Led design changes for existing products.
- Facilitated all change orders in PLM system related to material specifications.
- Drafted design verification and performance qualification reports for CAPA project.
- Assist lead R&D Engineer with prototype for new wound closure product.

Research and Development LCM Co-op

- Assisted in the procurement and analysis of suture diameter data for the design verification of a new test method ensuring compliance to the USP and YY standards.
- Conducted market research on competitor data.
- Organized a Solidworks course for Ethicon employees.

Raritan, NJ

June 2022- Present

June 2021 – May 2022

Wearable Robotics Lab

Student Researcher

- Worked in the WRL for my senior design project, a personalized ankle exoskeleton, creating an active closed-loop ankle exoskeleton to assist the movement of those with lower limb impairments.

Hoboken, NJ
2021-2022

WDF Inc.

Drafting Intern

Mount Vernon, NY
Summer 2020

South Shore Swimming Club/ Stevens Institute of Technology

Head Lifeguard/Swim Instructor

Hoboken, NJ/Staten Island, NY
2015- 2022

ACTIVITIES/ VOLUNTEERING

Stevens Men's Varsity Swim Team- Team Captain

Collegiate Student Athlete

- Balanced the academic work of an engineering student with the dedication of a collegiate athlete.
- Developed time management, communication skills, and teamwork abilities to be successful in academics and athletics.

2018-2022

College of Staten Island/ Hoboken Highschool

Special Needs Swim Instructor

2014- 2020

Tau Beta Pi - Engineering Honor Society

Pi Tau Sigma- Mechanical Engineering Honor Society

Kappa Sigma- Fraternity Member