

Ryan Callaghan

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EDUCATION

Stevens Institute of Technology

Master of Engineering, Biomedical Engineering

Bachelor of Engineering, Mechanical Engineering

GPA: 3.97; Honors: Dean's List, President's List, Presidential Scholarship

Relevant Coursework: Biofeedback devices, Biomechanics, Lean Six Sigma, Medical Device Design and Technology, Medical Instrumentation and Imaging.

Expected Dec 2022

Expected May 2022

Hoboken, NJ

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

June 2018

Staten Island, NY

SKILLS

Technical: Solidworks, Minitab, Creo, Ansys, Linkages, LabView, Matlab, Simulink, AutoCAD, Arduino, Microsoft Excel, Microsoft Office, Bluebeam, 3D Printing, Technical Drawing/Drafting, C++,

Other: Excellent leadership skills, communication skills, team-oriented

Certifications: Autodesk AutoCAD Certified, CPR, Lifeguarding/First Aid/ AED Certified

WORK EXPERIENCE

Ethicon Inc.

Research and Development LCM Co-op

- Drafted design verification reports to validate the expansion of the suture product VICRYL to be made and sold in a new manufacturing site in China complying with their industry standards.
- Assisted in the procurement and analysis of suture diameter testing data for the design verification of a new Testing method ensuring compliance to the USP and YY standards using the Minitab software.
- Conducted marketing research on competitor data to compare suture diameter oversizing, building an argument to increase our allowed diameter size.
- Organized and taught an intro to Solidworks course for Ethicon employees
- Attended daily team meetings on different projects to give and receive deliverable updates.

June 2021- Present

Raritan, NJ

Wearable Robotics Lab

Assistant Researcher

- Assisted in the research and development of a smart insole for populations with gait disorders to assist with functional rehabilitation, diagnosis, and assessment of movement disorders and injury prevention.

Spring 2021

Hoboken, NJ

WDF Inc.

Drafting Intern

- Learned and further developed skills such as AutoCAD 3D modeling, Bluebeam, and Microsoft Excel.
- Hands on experience with the creation and review of mechanical drawings.
- Weekly meetings with the Project Manager and Assistant Project manager to go over deliverables.

Summer 2020

Mount Vernon, NY

South Shore Swimming Club/ Stevens Institute of Technology

Head Lifeguard/Swim Instructor

- Assisted in managing lifeguard staff and over 500+ families who belong to the club.
- Conducted chlorine, pH and other chemical tests hourly to ensure safe pool conditions.
- Learned and maintained proficiency in first responder skills such as First Aid and CPR to offer individuals in distress support.
- Successfully communicated to and taught kids from the ages of 3-18 how to swim.

May 2015- Present

Hoboken, NJ/Staten Island, NY

ACTIVITIES/ VOLUNTEERING

Stevens Men's Varsity Swim Team- Team Captain

Collegiate Student Athlete

- Able to Balance the grueling academic work of an engineering student with the dedication and effort required of a collegiate athlete.
- Developed a strong work ethic, communication skills, and teamwork abilities to be successful in academics and athletics.

2018-Present

Hoboken, NJ

College of Staten Island/ Hoboken Highschool

Special Needs Swim Instructor (Volunteer)

- Help teach kids with developmental, physical, and learning disabilities how to swim.
- Requires patience, commitment, and strong communication skills to get kids to cooperate.

January 2014- Present

Hoboken, NJ/Staten Island, NY

Tau Beta Pi - Engineering Honor Society

Pi Tau Sigma- Mechanical Engineering Honor Society

Kappa Sigma- Fraternity Member