# Education and Research

MS in Mechanical Engineering, University of Exeter (IMechE Accredited) September 2017-September 2018. Exeter, UK (3.73 course GPA)

* **Research:** MS Thesis. Spring-Summer 2018.
  + CFD analysis of vibro-impact pipeline inspection robot conducted in ANSYS Fluent

BS in Physics with Mathematics Minor, Gettysburg College class of 2017. Gettysburg, PA (3.01 course GPA)

* **Research:** Gettysburg College Physics Department (BS Capstone). Fall 2016
  + Investigated surface degradation and morphology of proton-irradiated silicone (PDMS) using Van de Graaff Positive Ion Accelerator. Under supervision of Dr. Sharon Stephenson, Sponsored by NSF
  + Quantum Optics Laboratory experience: exploration of wave-particle duality of light (Spring 2016)

# Skills/Strengths

* Technical, mathematically skilled, organized, responsible
* Complex problem solving, understanding unfamiliar concepts and systems
* Working collaboratively in groups, communication, experience managing/networking large scale organizations and events
* Experienced in: MATLAB, Java, ANSYS (CFD and FEA), SolidWorks, AutoCAD, R, LaTeX, Python, Mathematica, OpenFOAM

# Employment

* **Marine Operations Engineer Intern,** General Dynamics Mission Systems; Bluefin Robotics business unit. Summer 2016, Summer 2017. Quincy, MA
  + Bluefin develops, builds, and operates Autonomous Underwater Vehicles and related technologies for DoD, commercial and scientific purposes.
  + Marine operations group responsible for offshore and dockside testing, as well as preparation, and maintenance necessary for execution of vehicle test missions and production
  + Other responsibilities: mission planning, vehicle operation/communication, execution of pre/post dive safety checks, troubleshooting electrical and mechanical systems, physical handling, sonar, control, dynamics data analysis
  + Worked closely in teams consisting of marine operations, mechanical, systems, software, and manufacturing engineers.
* **Surveyor Intern,** LandTech Consultants, Inc. Summer 2015. Westford MA.
* Field experience with all components of basic survey, experience using Leica data collector, 3D laser scanning
* **Intramural Coordinator**, Gettysburg College Intramural Program, ranked 3rd in the country for overall participation. Fall 2015-Spring 2016.
  + Top ranking student employee in Gettysburg Intramural program
  + Scheduled all games for all sports, managed all referees, supervisors, and commissioners
  + ‘13/’14, ‘14/’15 spent working as referee, Supervisor, and Commissioner
* **Philanthropy Chair,** Alpha Tau Omega (Alpha Upsilon Chapter), Gettysburg College. Winter 2015-Spring 2016
* **Acton Yardwork/Odd Jobs,** Co-Founder of Independent landscaping business. Summer 2011. Acton, MA
  + Managed projects, coordinated teams (3-5 people). Client base of 45+.

# Other Experience

* Course Audits (Coursera): Control of Mobile Robots (Georgia Tech), Arial Robotics (UPenn)
* Community service: Annual awards for 25, 50 hours (’10, ’11), Acton Congregational Church Mission Trip to Brooklyn (’11)
* Basketball: Varsity Basketball Captain 2012-13 ABRHS, Exeter University Basketball Club 2018,
* Club Soccer, Gettysburg College