

Shaun FEDRICK
Physics / Mechanical Engineer | Master's Student

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EDUCATION

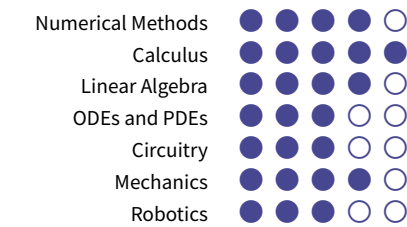
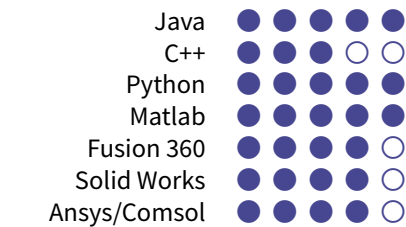
December 2021 January 2020	University of Pennsylvania Masters of Science in Engineering (M.S.E.), MECHANICAL ENGINEERING, PHL. > Masters student, concentrating in Mechatronics Engineering Technologies Rapid Prototyping Mechanics Stress and Failure Analysis Sensors Robotics Design
December 2020 August 2016	Haverford College Physics (B.S.) , HAVERFORD,PENNSYLVANIA , (3.1/4) > Fluid dynamic research; Thesis : Touch Down of a Sphere in Viscoelastic Media > Questbridge Scholar, Chesick Scholar, and J. Henry Scattergood Scholarship recipient Physics Analytical Thinking Problem Solving Coding Sensors Expirementation

PROFESSIONAL EXPERIENCE

May 2020 December 2018	Fluid dynamic research Student Researcher, HAVERFORD COLLEGE AND UNIVERSITY OF PENNSYLVANIA, Pennsylvania > Analyzed mechanics of a probe using Matlab, Java, and Fiji > Designed apparatuses to observe lubrication forces in viscoelastic fluids > Fabricated apparatuses using a laser cutter, 3d printer, and machined parts > Characterized viscoelastic fluids using a rheometer Matlab Solid Works Java Instron testing instruments Command line tools Fiji
May 2020 August 2019	Physics Clinic Student Tutor , HAVERFORD COLLEGE, Pennsylvania Tutored students in intro physics this includes : > Free bodies, trajectories, gravity, rotational motion, and various other lessons in mechanics > Coulombs law, circuitry design, Maxwell's equations, and various other lessons in E&M Circuitry Mechanics Analysis Teaching Communication
May 2019 August 2016	Digital Scholarship Digital Scholar , HAVERFORD COLLEGE, Pennsylvania > Programming in Python, Django, and D3.js > Navigating through a server and managing it > Command line tools Django Python D3.js Bootstrap Command line tools

PROGRAMMING AND TECHNOLOGIES

MATH AND PHYSICS



SKILLS

Coding and Technical Skills	Java, Matlab, Python, C++, Fusion 360, Solid Works
Fabrication and Design	Rapid prototyping, 3d printing, lasercutting, CNC milling
Math and Science	Mechanics, numerical methods, Calculus, ODEs, PDEs, Circuitry, Robotics
Technologies	Ros, Gazebo, Ansys, Comsol, Fiji, iMovie
Office Skills	Linux, Command Line Tools,Power Point, Git, Website Design, Excel, Word, L ^A T _E X
Other	Teaching, Device Trouble Shooting