Christian M. Schrader

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OBJECTIVE

Seeking an aerospace engineering internship for the summer of 2021.

EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA
Bachelor of Science in Aerospace Engineering, Minor in Computer Science
expected graduation December 2021, 3.7 GPA
Master of Science in Aerospace Engineering
expected graduation May 2022
Relevant courses in Optimal Control*, GNC*, Aircraft Controls*, Spacecraft Controls, Aerodynamics, Rocket Propulsion*, Software Engineering, and Algorithms.
** Completed by May 2021*

SKILLS

Engineering Software: MATLAB, SOLIDWORKS, SOLIDWORKS PDM, EAGLE, KiCad
Programing: Python, C, C++, Java, JavaScript, HTML, CSS, GIT
Fabrication: Printed Circuit Board (PCB) Prototyping, CNC Milling, FDM 3D Printing
Microsoft Office: Word, Excel, PowerPoint, Outlook, SharePoint

WORK EXPERIENCE

Technical Intern **Summer 2020**
GE Aviation, Virtual
- Applied Lean and Six Sigma in a simulated New Product Introduction project.
- Selected key engine technologies and compared costs by doing analysis in Excel.

Aerospace Intern and Group Lead **Summer 2019**
NASA Ames Research Center, Aeromechanics Division, Mountain View, CA
- Lead a team of 3 interns in developing a system concept for a wildland fighting UAV.
- Created a proof of concept robot, and wrote a technical report on the project.
- Wrote heat seeking navigation algorithm and the robot's firmware in C++.

Aerospace Engineering Intern **Summer 2018**
Busek Co. Inc., Natick, MA
- Worked with vendors and engineers to improve part manufacturability in SOLIDWORKS.
- Developed procedures for PCB prototyping and designed a vacuum chuck for PCB milling which simplified and accelerated the PCB prototyping workflow.

PROJECT EXPERIENCE

NASA University Student Launch Initiative (USLI) **2018 to Present**
- Co-founded HPRC, the WPI USLI team in 2018. Served as the team's Safety Officer.
- Elected Captain in 2019. Led a team of 9 Officers and 44 general members to design, build, and test a rocket and UAV payload to complete a sample return mission.
- Currently serving as Documentation Officer and Avionics Lead. Responsible for the management of team milestone reviews and avionics subsystems and air brake control.

DocTour Hospital Directory **Spring 2020**
- Developed a directory and management kiosk software on a 10 person Agile team for Brigham and Women's Hospital. Contributed to the team's Java codebase with GIT.
- Managed team documentation. Wrote A* based navigation algorithm and other features.

Electrohydrodynamically Enhanced Two Phase Flow in Microchannels **Spring 2020**
- Conducted a literature review of nucleate boiling in microchannels for the research project.
- Created design requirements and recommendations for an improved channel apparatus.

DISTINCTIONS

Eagle Scout, Bronze Palm, Boy Scouts of America
Sigma Gamma Tau, National Aerospace Engineering Honors Society
Level 1 High Power Rocketry Certification, National Association of Rocketry