

# Nathan Faber

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## Education

### **Olin College of Engineering | Bachelor of Engineering: Computing and Robotics Focus | Aug. 2019 -**

- 4.0 GPA. in courses in: Software Development/Design, Data Science, Computer Modeling, Calculus/Engineering/Physics, Entrepreneurship, and Sustainability
- Course projects include creating facial recognition software, a movie recommendation engine, Olin course scheduling software/recommender, robotic navigation/object avoidance using Lidar

### **Lane Community College | Exploratory Studies | June 2019**

- 4.16 GPA in courses in database design (Oracle/SQL), C#/App development, Calculus and CS (C++)

## Skills & Abilities

**Programming:** Python, Git, SQL(Oracle, Postgres), R, Matlab, C#, Mobile App Dev, PHP, Javascript, VBA, Ladder Logic/PLC Code

**Software:** Solidworks, Fusion 360, Visual Studio, Adobe Illustrator, Photoshop, InDesign, Excel, VMWare

**Other:** Lathe, Mill, MIG/TIG Welding, 3d-Printing, Laser Cutting, standard shop tools

## Activities

- **Design Build Fly** – Designed and built mechanical systems on model airplane for collegiate competition
- **Informis Modeling Competition team** – Performed EDA over supply chain dataset and implemented a simulation in Python to optimize supply chain production for the Informis modeling competition
- **Student Activities Committee** – Coordinated with students and
- **Eco-Rep** – Worked as part of group to advance sustainability on campus, I reduced the use of single use cups
- **Computer Science/Modeling course assistant** – Support and teach first year students modeling in Matlab
- **Olin Hosting Coordinator** – Coordinated and led prospective student hosting/visiting for the entire college

## Experience

### **Volpe DOT Research Center | Computer Science Intern | Boston, MA | May. 2020 – Aug. 2020**

- Government funded transportation research center focused on improving transportation across the nation
- Developed and improved Machine Learning object-detection and classification model to process through petabytes of instrumented vehicle video using Python, TensorFlow, and Mobilenet
- Built active learning pipeline to leverage Machine Learning to improve said model
- Supported adjacent software development tasks by testing and automating data validation/labeling

### **Concept Systems Inc. | Engineering Intern| Albany, OR | Dec. 2018 – May 2019**

- Systems integrator that designs, builds, and supports automated solutions for manufacturing
- Worked with team to develop software solution that uses deep learning algorithms to detect defects in parts via computer vision
- Maintained and developed internal code to process information and interact with SQL database
- Learned the basics of factory automation, Controls Engineering, PLC programming, HMI design, Mechanical design, and Control System Integration

### **Zebrafish Intl. Resource Center | Web App Developer | Eugene, OR | Jun. 2019 – Aug. 2019**

- ZIRC tracks, maintains, stores, sells, and studies tens of thousands of genetically unique Zebrafish stocks for the greater scientific community with funding from the NIH
- Developed JavaScript Web App using PostgreSQL database that allows researchers to examine unique family tree of certain fish breeds and identify trends and problems within genetic fish line

### **Lane Community College | TRIO Stem Tutor| Eugene, OR | Sept. 2018 – Jun. 2019**

- Federally funded program that provides tutors to students with financial hardship and/or disabilities
- Tutored students in math, computer science, writing, and study skills
- Worked to create, adapt and maintain safe space for all students