

# Noah LaFerriere

*Best way to learn about me? Check out my website! <https://noahlaf.me>  
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## EDUCATION

### University of Pittsburgh

*Pittsburgh, PA – August 2017 – May 2021*

- Bachelor of Science: Computer Science | Graduated with Honors
- Departmental GPA: 3.5 | Overall GPA 3.3
- Relevant Coursework: Operating Systems, Systems Software, Algorithm Implementation, Data Structures, Data Networks, Cloud Computing, Intro to Machine Learning, Software Engineering, Computer Architecture

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## EXPERIENCE

### Quality Assurance Analyst

*VetNOW, One Health Solutions – December 2020 – June 2021*

- Created system to continuously test critical client business logic and report failures to the development team, mitigating the problem of customers discovering problems before us
- Reviewed development tickets and worked with offshore development team to identify and resolve bugs
- Greatly reduced volume of client bug reports by interacting with clients to proactively identify bugs

### Software Engineer Intern

*VetNOW, One Health Solutions – May 2020 – August 2020*

- Developed Docker infrastructure and deployment pipeline for our platform to address development bottlenecks
- Researched, designed and implemented full stack solutions to integrate Bluetooth medical sensors (ECG, Camera, SpO2) with the browser-based platform
- Developed real-time web based graphing utility to visualize ECG and SpO2 output waveforms
- Worked with Quality Assurance engineers to develop automated QA system

### Software Engineer Intern

*Carnegie Mellon University, Robotics Institute – September 2019 – May 2020*

- Created Docker infrastructure and accompanying deployment pipelines for the drones used in the Mohamed Bin Zayed International Robotics Challenge (MBZIRC)
- Automated drone & stack startup process, reducing startup time 10x
- Implemented ROS supervisor node to eliminate manual intervention in the automated startup process
- Implemented automated data collection to increase productivity at remote test site
- Trained YOLOv3 neural networks to detect various competition artifacts. Enabled training on a cluster with multiple GPU's, increasing training speed 12x
- Responsible for critical infrastructure of onboard systems for all 5 robots during competition in Abu Dhabi

### Team Lead

*University of Pittsburgh, Robotics and Automation Society (RAS) – June 2019 - January 2020*

- Gained leadership and teamwork skills leading a team of 10 students working on the Intelligent Ground Vehicle Competition (IGVC) for Pitt RAS.
- Gained task management and public speaking skills leading twice weekly team meetings
- Integrated all sensors with ROS, including IMU, encoder, camera, and lidar
- Setup hardware, implemented low level embedded controls system and integrated it with ROS
- Designed and implemented robot localization system
- Created a TensorFlow cone detection system and optimized it to run inference 3x faster on a CPU

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## SKILLS

### Languages and Technologies

- *Languages (most to least proficient):* Python, Bash, Java, JavaScript, C, C++ C#
- *Technologies (most to least experience):* Linux, Docker, Docker-compose, Git, ROS, Flask, GCP, AWS, Selenium, Testrail, Jira, Web Bluetooth API, TensorFlow, Darknet, OpenVINO, OpenCV, NodeJS, Django
- *Platforms:* Ubuntu (8 years) – Windows 10 (4 years)