

Michael Bonnet

🌐 MichaelBonnet.github.io | Fort Worth, Texas, United States

✉ maabonnet@gmail.com

🔗 MichaelBonnet

📞 817-901-2250

EDUCATION

University of Texas at Arlington

Arlington, TX

BS in Computer Science, Certificate in Unmanned Vehicle Systems

Graduation: May 2022

SKILLS & TECHNOLOGIES

- **Programming Languages:** C, C++, Python, Java, JavaScript, HTML/CSS, ARM7 Assembly, SQL
- **Software & Processes:** Machine Learning, Deep Learning, TensorFlow, PyTorch, OpenCV, Keras, Git, Bash, CLI, Vim, Linux/Unix, Amazon Web Services (AWS), MATLAB, Simulink, Robot Operating System (ROS), Agile Development, Internet of Things (IOT)
- **Hardware:** Robotics, Commercial & Self-Built Drones, Raspberry Pi, Arduino/Microcontrollers, Software Defined Radio (including RTL-SDR and LimeSDR)

EXPERIENCE

Lockheed Martin

Grand Prairie, TX

Software Engineer Intern, Missiles and Fire Control

October 2021 - Present

- Deployed, integrated, and maintained Jira issue tracking software for Missiles and Fire Control division
- Improved digital transformation principles and practices in support of IIOT (Industrial Internet of Things) and production manufacturing
- Integrated and deployed development solutions with Amazon Web Services (AWS) Cloud

Lockheed Martin

Fort Worth, TX

Software Engineer Intern, Enterprise Operations

May 2021 - October 2021

- Researched DevOps tools such as Ansible and Jenkins CI for potential use by Enterprise Operations and other teams; research report has lead to changes in development workflow
- Developed practices and documentation for properly using Git version control within an Agile (Scrum) development cycle, earning opportunity to continue working past the summer internship
- Developed data integration software using Java and Java-based tools

MineralWare

Fort Worth, TX

Web Development Team Intern

Jan 2020 - May 2020

- Overhauled all styles for the entire MineralWare application throughout Agile (Scrum) internship
- Redesigned the client-facing Tract Management page
- Implemented a system to automatically update static resources in the MineralWare webapp upon new releases, solving a common client UI issue

PROJECTS

Network Exploitation Drone

Drones, RF Engineering, Penetration Testing, Networks

- Senior capstone project to build a drone that carries a sensor and networking payload that locates and identifies open Wireless Access Points before scanning the network and exploiting any vulnerabilities.
- Served as Team Leader, Scrum Master, and Communications Lead on a six-student team that earned sponsorship and technical advising from Elbit Systems of America

Machine Learning Projects

Python, Numpy, Intelligent Systems

- Various projects for undergrad Machine Learning course, including naive Bayes, linear regression, neural networks, and reinforcement learning, primarily using Python, Numpy, and TensorFlow

Mav Shell

C, Linux, Operating Systems

- Wrote a bash-like Unix shell in C. Basic functionality is provided by processing user input and forking new processes to handle user commands. Additional basic process control and file system traversal are provided.