Michael A. Bonnet

LOCATION AND CONTACT
Fort Worth, TX, United States
(817) 901-2250 | maabonnet@gmail.com

LINKS AND PORTFOLIOS
linkedin.com/in/michael-bonnet/
github.com/MichaelBonnet

Education

Bachelor of Science, Computer Science, May 2022
University of Texas at Arlington
Certificate in Unmanned Vehicle Systems
Relevant Coursework: AI, Machine Learning, Computer Vision, Robotics, Networks

Computer Skills

Languages:	C++, C, Java, JavaScript, HTML+CSS, Python, ARM7 Assembly
Software:	Agile Development, Windows, MacOS, *nix, Git, Bash, Vim, Ansible, SQL, Zope, MATLAB, Simulink, ROS
Hardware:	Raspberry Pi, Arduino, Drones, Robotics, Software Defined Radio including RTL-SDR

Experience

Software Engineer Intern, Lockheed Martin, Fort Worth, TX May 2021-Present
- Earned the privilege of working part-time during the Fall 2021 semester, beyond the initial summer-long full-time internship
- Researched DevOps tools for use by my team and presented report based on that research that has lead to potential changes in development workflow
- Developed practices and documentation for properly using Git version control where it hadn't been fully taken advantage of before
- Developed data integration software using Java and Java-based tools

Development Team Intern, Mineralware, Fort Worth, TX Spring 2020
- Successfully completed a semester-long Agile web development internship, earning the trust and respect of my team and supervisors
- Overhauled all styles for the entire MineralWare application
- Redesigned the client-facing Tract Management page
- Implemented a system to automatically update static resources in the MineralWare application upon release of new versions, solving a common client issue

Personal Projects

Wardriving Drone, Senior Project in UAV and RF technology + Agile Development
- Currently developing a Software Defined Radio sensor payload for a commercial drone that locates RF emitters such as wifi access points
- Sensor payload reads angular and frequency data from different geographic points reached by moving the drone, then transmits that data to a base station
- Base station triangulates and maps the position of the RF emitter based on data from the sensor payload
- Earned project sponsorship from Elbit Systems

Mav Shell, Exercise in C and System Calls
- Wrote a bash-like Unix shell in C. Basic shell 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.

Leadership Activities

Co-Founder and Director, Texas Street Medics, Denton, TX Summer 2020
- Directed a nonpartisan medic group providing emergency first aid services
- Led 50+ medics for 3+ months both in the field and adminsitratively
- Coordinated fundraising and inter-organization collaboration