Address City State Zip

HUNTER FIGGS

(XXX) XXX-XXXX hunter.figgs@gmail.com

EMPLOYMENT

Robotics Software Engineer

ThorDrive

July 2022 - Present

- LiDAR Sensor Grabber
 - Reduced computation load by 60% after profiling software module with Valgrind Callgrind and eliminating recurring memory allocations with RAII
 - Improved data latency by 3 milliseconds by refactoring code to use ROS zero-copy transfer
 - Rewrote networking code to utilize Boost.ASIO to make code robust and maintainable
- Flight Trajectory Prediction
 - Developed real-time airplane trajectory prediction module to assist with autonomous vehicle navigation
 - Implemented motion model to reliably predict short-term airplane movements
- Sensor Calibration
 - Adapted open-source calibration software into robot production to save days of manual labor

Software Engineer Intern

ThorDrive

May 2021 - Dec. 2021

- Vehicle Control & Diagnostic GUI
 - Developed Python GUI application for vehicles to improve user experience/efficiency
 - Integrated with ROS to send vehicle commands, report diagnostics (GPS fix, battery health, etc.), log data
- Flight Data Grabber
 - Created module to capture and process real-time flight data to aid vehicle perception

DevOps/TestOps Intern

Siemens Healthineers

May 2020 - Aug. 2020

- Server Usage Dashboard
 - Built web dashboard to report statistics on MS Azure build server utilization
 - Reports were used to make decision on \$500,000 purchase of server equipment
- Chosen for Intern Spotlight of the Week

Teaching Assistant

Engineering Dept. Ohio State

Aug. 2019 - Dec. 2019

- Taught advanced programming section of Honors Fundamentals of Engineering course
 - Topics: technical writing, eng. design process, eng. ethics, C/C++, MATLAB

EDUCATION

Columbus, OH

Ohio State University

Aug. 2018 – May 2022

- B.S. in Computer Science & Engineering, May 2022, GPA: 3.9
 - Coursework: Algorithms; Operating Systems; Databases; Networking; Neural Networks; Computer Vision;
 Speech and Language Processing; Advanced Artificial Intelligence

TECHNICAL EXPERIENCE

Projects

- hunterfiggs.com. Fun personal website to display projects. JavaScript, CSS, HTML
- **NES Zelda Clone** (Autumn 2020). Collaborative school project to recreate classic video game. Implemented A* enemy search, collision detection, and ray-casting lighting system. C#.NET, MonoGame
- HackOHI/O Hackathon (2019). 24-hour, top-down shooter in the browser. Implemented modular, file-based level design. JavaScript, p5.js, HTML
- Robotics Competition (Spring 2019). Collaborative school project to design robot to navigate course and complete objectives. Implemented PID control system. Placed top 16 out of 100 teams. C++, SolidWorks

LANGUAGES AND TECHNOLOGIES

- C++; Python; C#.NET; Java, JavaScript/HTML/CSS; PowerShell; SQL
- Boost; ROS; CMake; Visual Studio; Valgrind Callgrind; Kivy; SolidWorks