

Andrew Humphrey

Full Stack Developer

Full stack developer with 4+ years of experience building scalable web applications, industrial robotics platforms, and embedded software systems.

EXPERIENCE

CodePlatoon

October 2020 – Present, Chicago IL (remote)

Full Stack Developer Boot Camp

- Worked closely with teammates to build reactive web application, databases, and javascript/python programs.
- Utilized various frameworks and OOP techniques to build scalable applications.
- Designed PostgreSQL databases and application specific schema.
- VSCode, Python, Javascript, Django, TDD, OOP, SQL, Jest, React.

NIAR – National Institute for Aviation Research

January 2017 – Jan 2020, Wichita KS

Robotics Developer

- Operated ABB, UR, and Fanuc industrial robotics platforms using native robotic languages.
- PLC development using SoftLogix.
- GUI design UI/UX using QT5.
- Developed 1:1 digital robotic cells with custom software integration.
- VS16, ROS, ABB, RoboDK, QT Designer, Python, OpenCV, MatLab, Blender.
- Personal achievement– Developed android app using QT5 and MQTT to query robot joint positions and execute movements sent over a cellular network. This allowed for offsite control of the robotic cell.

CONTACT

Alexandria, VA 22301

(843) 789-0122

andrew.2.humphrey@gmail.com

PROJECTS

ROS Autonomous Vehicle

–tool stack: MQTT, Python, ROS, LiDar, GSPD, SLAM.

Amazon Alexa API Integration

–tool stack: Amazon Skills Kit, Nodejs, Alexa API .

Liquid Handling Chemistry Robot

–tool stack: Python, Raspberry Pi, OctoPi, NodeJs, Django, Fusion360, QT5.

MagicMirror Infographic Display

–tool stack: Nodejs, Python, RPi, HTML, CSS, Javascript, React, MQTT.

EDUCATION

Wichita State University

B.S. in Criminal Justice

August 2017 – July 2020 Wichita KS

- Notable Courses: Calculus, Digital Investigations, Engineering Graphics, Research Methods, Mechanical Design, Physics.

MILITARY SERVICE

USCG – Boatswain's Mate Second Class

May 2009 – August 2017

- Secret Clearance
- Federal Law Enforcement Academy Graduate
- 1st LT, Deck Watch Officer, Department Head, Coxswain, Communications Officer, Sexual Assault Victims Advocate.

REFERENCES

- James Anderson : Chief/E7 USCG : Coworker : (540) 280-1401
- Brian Brown : Director of Robotics NIAR : Supervisor : (316) 978-3246
- Alex Van-Pelt : Robotics Engineer : Direct Supervisor : (913) 948-1456

FREQUENTLY USED TECHNOLOGIES:

