

ANDREW LOEBS

[aloeb29.github.io](https://github.com/aloeb29)

Software Developer

EXPERIENCE

META | Embedded Software Engineer

January 2022 – *Present* | Redmond, WA

- Developing inter-process communication framework used in multiple AR/VR products.
- Leading cross-functional features that integrate upstream software and firmware to ensure on-time delivery of product milestones.

Skills Utilized: C/C++, Python, RISC-V, ARM Cortex-M, Linux, Android, and Mercurial.

KINETIC VISION | Firmware Engineer

January 2020 – December 2021 | Cincinnati, OH

- Developed reliable firmware for low-power data loggers operating in enclosed environments for multi-month consumer studies.
- Maintained internal Python package ecosystem for testing and data collection of a large-scale, distributed robotics platform.

Skills Utilized: C/C++, Python, ARM Cortex-M, Linux, Docker, and Git.

XACT MEDICAL | Firmware Development Engineer, Contract

February 2018 – January 2020 | Cincinnati, OH

- Developed two-axis robotic control system capable of high-speed movements with sub-millimeter accuracy.
- Core team-member of NSF funded project for dynamic compensation of medical robot based on user and patient movement.
- Designed complex data logging system to provide rich test results in benchtop and pre-clinical testing.

Skills Utilized: C, Python, PIC/dsPIC, MARG sensor fusion, and Git.

INTELLIGENT GREEN PRODUCTS | Firmware Development Engineer, Contract (Part-time)

February 2018 – January 2020 | Cincinnati, OH

- Implemented Bluetooth Low Energy communications stack in IoT device to enable Android and iOS connectivity.
- Integrated real time sensor inputs and user settings to develop flow control scheme for smart shower system.

Skills Utilized: C, dsPIC, Bluetooth Low Energy, and Git.

BLUELINE DRAFTING | General Engineering Services, Contract

May 2015 – Feb 2018 | Cincinnati, OH

- Created suite of drafting automation tools that significantly reduced time spent by employees in the field.
- Developed software applications to increase standardization and quality control of customer deliverables.
- Drafted architectural and engineering building design documents.

Skills Utilized: C#/.NET, AutoCAD LISP, AutoCAD, and Git.

EDUCATION

CINCINNATI STATE TECHNICAL AND COMMUNITY COLLEGE | Graduated July 2015

A.A.S. in Mechanical Engineering Technology | **GPA:** 3.96

- **Core Coursework:** Machine Design, Kinematics, Applied Thermodynamics, Statics and Strength of Materials.