## ANH NHAN CAO

305 E Front St, Missoula, Montana 59802

EDUCATION	
University of Montana, USA M.Sc. Computer Science	2023 - 2025
Vietnam National University - University of Technology (HCMUT) B.E. Electronics & Telecommunications Engineering.	2017 - 2022
VNU-HCM High School for the Gifted, Viet Nam High School Diploma.	2014 - 2027
PROFESSIONAL EXPERIENCE	
University of Montana, USA Teaching Assistant - Operating Systems	Jan. 2023 - Present
<b>University of Montana, USA</b> Research Assistant - Under the supervision of Asst. Prof. Anh Nguyen	Jan. 2023 - Present
<ul> <li>Seeing Machines Inc - Melbourne, Australia</li> <li>Software Engineer - Remote Contractor - Caterpillar project</li> <li>Developed several features on the host microcontroller, which included in storage, human-machine interface (HMI), hardware diagnostic module.</li> <li>Implemented and integrated software on the Linux board for self test execution</li> <li>Improved the current code base regarding serial communication between board via UART, legacy code fixes</li> <li>Linux board source code migration to update build environment, so helped the the persistent problem of old fashion build process barrier.</li> <li>New hardware bring up</li> </ul>	n, sensor driver host controller and Linux
<ul> <li>DEK Technologies - Ho Chi Minh City, Viet Nam</li> <li>Embedded Software Engineer - Fovio driver monitoring project</li> <li>Defined functional safety requirements for general I/O monitoring, DRAM bitflig communication error (SPI)</li> <li>Implemented software for defined functional safety requirements</li> <li>Developed software features based on requirements from customer</li> <li>Supported US customer with the release and and fixed reported bugs</li> <li>Mentor for new project members</li> <li>Updated appendix documents and user guide</li> </ul>	Apr. 2022 - Jan. 2023 os monitoring, physical

## Earable Neuroscience - Ho Chi Minh City, Viet Nam

Firmware Engineer

• Developed firmware for different hardware components such as digital microphone, external Nand flash, eMMC, hardware logging module, wav player

Jan. 2021 - Apr. 2022

- Developed applications for wireless communication via Bluetooth low energy
- Implemented signal filtering on microcontroller, ported light weight deep sleep detection algorithm running on PC to microcontroller, this became one of the key features to help Earable raised funds successfully in early 2022
- Developed PC application with Qt and Bleak to simulate mobile app for testing with hardware

- · Implemented testing scripts with Python to test hardware operations
- Contributed to the system optimization such as power saving, Bluetooth dual mode operation with Handsfree / A2DP and sensor data (BLE) concurrent streaming
- New hardware bring up
- Updated requirements and designs

## Earable Neuroscience - Ho Chi Minh City, Viet Nam

Jul. 2020 - Jan. 2021

Firmware Intern

- · Implemented full test cases for device under test
- Dev KITs bring up to select potential hardware components for the next release
- Developed firmware for various biosensors ADS1299-6, IMU, PPG and other peripherals like LED, RTC
- · Ported simple machine learning model to microcontroller and validate output

## SKILLS

Personal skills	Problem solving, leadership, critical though, creative, communication.
Programming Language	C, C++, Python, bash
Technical knowledge	Embedded systems, RTOS and Linux, IoT, DSP, hardware design