

Utsav Munendra

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WORK EXPERIENCE

Meta , Software Engineer	Jan 2022 - Present
Virtual Reality Firmware	Burlingame, CA
<ul style="list-style-type: none">– Brought up boards, sensors and interfaces (SPI, I2C, UART, MSPI) for MCUs in Meta Quest 3, Quest 3S headsets and Meta Quest Touch Plus controllers– Led JMD as the sole partner SWE for Meta Quest Controller Rechargeable Batteries– Led in-market support for cameras involving bug-resolutions, architecture improvements, data-analysis and collaboration with Qualcomm on CamX– Designed sensor driver framework and HAL implementations for Qualcomm Hexagon DSP– Brought up USB Mass Storage end-to-end solution, from AOSP filesystem to flash sensor drivers– Assisted factory builds via on-site support and tooling implementation	
Green Hills Software , Software Engineering Intern	
MULTI Debugger & Advanced Products Group	Summer 2021, Summer 2022 Santa Barbara, CA
<ul style="list-style-type: none">– Extended the Rust compiler and ported Rust crates to natively support new Green Hills' Integrity RTOS targets– Increased performance of GHS Embedded Systems Debugger by making IPC more efficient	
Verkada , Software Engineering Intern	Winter 2021, Spring 2021
Cameras Core OS	San Mateo, CA
<ul style="list-style-type: none">– Brought up OS service in Go for system encrypted volume setup and filesystem management– Assisted in new board bring-up by modifying Bitbake build system– Created test rack for new camera models	

EDUCATION

University of California, Los Angeles	Sept 2018 - Dec 2021
B.S. in Computer Science, Henry Samueli School of Engineering and Applied Science	
GPA: 3.96/4.00. <i>summa cum laude</i>	
Reader and Learning Assistant for CS33: Computer Organization	

PROJECTS

Open-Source Contributions to Zephyr RTOS	2025
Various CMSIS-RTOSv2 compatibility layer, flash and MSPI driver fixes	
WebAssembly Runtime (WAMR) for ARM Mbed	2020
Allows existing WebAssembly modules to run on ARM Mbed boards	
UCLA Cuneiform Digital Library Initiative (CDLI) Research Lab	
User-customizable heatmap with filters for querying artifact data	

SKILLS

Languages	C/C++, Python, Rust, Go
RTOS	Zephyr, RTX5, Qualcomm QuRT
Tools	GDB, CMake, Makefile, Logic Analyzer, Oscilloscope