Luke Van Namen

Phoenix, AZ
616-970-6928 | vannamenluke1@gmail.com

Objective

To apply technical knowledge of embedded and computer systems that will generate new ideas for chip design, by collaborating with cross-functional teams and clients, while also gaining knowledge in product design, consulting, and project management.

Experience

Electrical Engineering Analyst | Accenture Silicon Team (Industry X) July 2023-Present

- Joining Team in August

Engineering Technician | Department of Defense – U.S. Army (DevOps Team) May 2021-August 2022

- Developer in the Immersive Simulation Department developing programs to help warfighters more efficiently operate future U.S. Army ground vehicles.
- Configured server for Unreal Engine projects to be built, packaged, and run as GPU accelerated containers.
- Containerized Unreal Engine projects and Signaling Server using Dockerfiles to test new pixel streaming plugin in hopes of implementing the plugin for future experiments.
- Created and automated Conan packaging for Unreal Plugin Binaries to be distributed across Unreal Projects.

Engineering Student | University of Michigan – Computer Architecture September 2022-December 2022

- Designed and built the memory system (Icache and Dcache) for an out-of-order processor using System Verilog.
- Implemented an instruction prefetcher into the fetch stage of the out-of-order pipeline.
- Worked with teammates to integrate each stage of our out-of-order processor and wrote tasks and testbenches to determine the performance of our processor.

Engineering Student | University of Michigan – Embedded Systems January 2022-April 2022

- Designed a complex finite state machine that called device functions and allowed for smooth user experience.
- Developed code for sending and receiving messages from LoRa devices using complex SPI interfacing.
- Worked with teammates to integrate each of their device's software into one code base so that the devices could communicate to each other.

Business Student | University of Michigan – Management Consulting January 2023-April 2023

- Prepared for and conducted interviews with executives of client company using interviewing templates from top consulting firms to gain valuable insight into company culture, needs, and desires.
- Completed a strategic fit analysis and financial analysis for each of the 9 proposals presented by the client to help guide potential recommendations to client based on insights from interviews and narrow down feasibility of each proposal.
- Delivered report and presentation to client on situation assessment, recommendations, and performance impact if recommendations were implemented.
- Received top team of the class from professor as well as role playing executives, many of whom are C-Suite Executives.

Engineering Research Student | University of Michigan – Heliophysics Space Team January 2021-May 2022

- Implemented Raspberry Pi server with Long Wavelength Antenna Array to acquire data from antenna receivers by adding extra hardware and reconfiguring the serial interface on the Pi.
- Configured Pi for remote access by altering original configuration files and debugging software programs and successfully commanded Pi via client-server model to collect and receive all data over wireless connection.
- Designed grounding system for antenna and all instruments to decrease noise and protect equipment from dangerous weather.

Education

BSE Computer Engineering | University of Michigan September 2019-April 2023

- Courses included Data Structures & Algorithms, Signals & Systems, Big Data & Business Intelligence, Embedded Systems, Compilers, Computer Architecture, Embedded Control Systems, Management Consulting
- Received Dean's list honors from 2019-2023 and University honors from 2020-2022

Skills

- *Technical Skills:* C/C++, System Verilog, MATLAB, Python, Bash Scripting, HTML, AWS, Docker, FPGA, Raspberry Pi, Linux, RISC-V
- *Other Skills:* PowerBI, Microsoft Office, Consulting Management, Project Management, Financial Analysis, Technical Communication

Activities

- Vice President of club golf team at University of Michigan
- Instructional Aid for introductory programming course at University of Michigan
- Leader for Church small group