

Zachary W. Walden

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Skills

•Software

Languages— C/C++ (Embedded(RTOS, PIC, STM32, AVR), Linux, Windows), Python, Assembly (AVR), Verilog (CocoTb), MATLAB/Simulink, Java(General, Android), Bash

Other— GDB, Git, Qt GUI (Python & C++), General Linux, UML, SYSML, L^AT_EX, Agile

•Hardware

Design— Kicad(PCB), Cadence Design Entry CIS, Digital (Microcontrollers, FPGA, 7400 series), Analog (Op-Amps, Transistors, Diodes)

Validation/Verification— Cadence PSpice, Oscilloscopes

Prototyping— Breadboard, SMT (Experience with all package types besides BGA, QFN, & Wafer Scale), THT

Education

•Oklahoma Christian University

Bachelor of Science, Computer Engineering, GPA 4.0/4.0, Summa Cum Laude

2018-2022

Honors & Awards

- 2022 Outstanding ECE Senior
- 2021 Outstanding ECE Junior
- 2020 Outstanding ECE Sophomore

Experience

•Teaching Assistant, Oklahoma Christian University (Jan. 20 - Mar. 20, Aug. 21 - Nov. 21, Jan. 22 - Apr. 22)

•(Dec. 20 - Jan. 21, Jun. 21)

•VisuALS Technology LLC. (May 2019 - Aug. 2020)

Projects

•8-bit 5-stage Pipeline RISC CPU

•DC/DC Boost Converter

•RGB Laser Scanner Controller