

# Zachary W. Walden

222 Prairie Ridge Dr. Bartlesville, Oklahoma 74006

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## Skills

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### –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<sup>A</sup>T<sub>E</sub>X, Agile

### –Hardware

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

**Verification/Validation**—Cadence PSpice, Oscilloscopes

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

## Education

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### –Oklahoma Christian University

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

2018–2022

## Honors & Awards

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### –Oklahoma Christian University

- Outstanding ECE Senior 2022
- Outstanding ECE Junior 2021
- Outstanding ECE Sophomore 2020
- The President's Scholarship 2018

## Experience

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–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

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–8-bit 5-stage Pipeline RISC CPU

–DC/DC Boost Converter

–RGB Laser Scanner Controller