

# Zachary W. Walden

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## 1 Skills

### 1.1 Programming

- Application: C/C++, Python, Java
- Embedded: C, Assembly (AVR)
- HDL: Verilog, CocoTB
- Other: MATLAB, Simulink, CMSIS RTOS RTX, Qt (Python & C++), Git, GDB(-Peda)

### 1.2 CAD

- Circuits: Kicad, Cadence PSpice (simulation)
- IDEs: Visual Studio, VSCode, Microchip Studio, ARM Dev. Studio, Keil uVision, Eclipse, Android Studio, STM32Cube
- Other: Visual Paradigm (UML, SYSML)

### 1.3 Prototyping & Debug

- Debug: Benchtop Digital Oscilloscopes, Analog Discovery 2
- Prototyping: Breadboards, Soldering (SMD & THT, Iron & Hot Air. QFP, SSOP, SOIC, etc. packages).

## 2 Education

### 2.1 Oklahoma Christian University

Bachelor of Science, Computer Engineering Aug 2018 - April 2022, GPA 4.0

## 3 Experience

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

### 3.2 (Dec. 20 - Jan. 21, Jun. 21)

### 3.3 VisuALS Technology LLC. (May 2019 - Aug. 2019)

## 4 Projects

### 4.1 8-bit 5-stage Pipeline RISC CPU

### 4.2 DC/DC Boost Converter

### 4.3 RGB Laser Scanner Controller