

# DYLAN WEBER

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Forward thinking Purdue University computer engineering graduate specializing in computer architecture and embedded devices. Able to think creatively to deliver solutions through continuous improvement. Possesses great attention to detail and high-quality work, managing concurrent projects in a fast-paced, deadline driven environment.

## TECHNICAL EXPERTISE

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### Design Languages

SystemVerilog

### Programming Languages & Experience

C, Objective-C, Python, Java, Bash, HTML, Javascript, Node.js, CSS, ARMv6 Assembly, Linux, Vulkan

### Microcontroller Experience

Atmel ATmega, Atmel ATtiny, STMicroelectronics STM32, Espressif ESP8266, Espressif ESP32

### Software Experience

KiCad, Mentor Graphics ModelSim

## EDUCATION

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**Purdue University** | *West Lafayette, IN*

August 2016 - August 2020

*Bachelor of Science in Computer Engineering*

- Member of Purdue Linux Users Group.

## COMPUTER ENGINEERING PROJECTS & WORK EXPERIENCE

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**Handheld LIDAR Measurement Device** | *Purdue University* | *West Lafayette, IN*

2020

- Designed circuit board with microcontroller, connecting to accelerometers and gyroscopes to observe data for measurement.
- Set design limitations from anticipated use, constructed prototype, and tested in small parts to ensure functioning design.

**Dual Core Cache-Coherent Processor** | *Purdue University* | *West Lafayette, IN*

2019

- Worked collaboratively with partner to create a dual-core CPU with separate cache per core design in SystemVerilog.
- Debugged using Mentor Graphics ModelSim & synthesized on an FPGA.
- Designed each facet of processor and broke down design in order to increase speed.

**Wi-Fi-based Analog Receiver & Transmitter** | *Highland Park, IL*

2019

- Built doorbell chime using open source tools to run over Wi-Fi, connecting to a local wireless network to transmit doorbell notifications.
- Prototyped smaller functioning parts and arranged a schematic. Selected parts to fit design and used KiCad to layout a circuit board. Wrote software to achieve functionality.

**IT Computer Specialist** | *ARCOA Group* | *Waukegan, IL*

May 2018 - July 2018

- Sorted incoming functional computers and dismantled for components. Tested assets for teardown, cleaned hard drives and wiped sensitive information. Ensured monitors were functional and had no dead pixels.
- Troubleshoot individual components and replaced one at a time to diagnose problem. Repaired and cleaned salvageable assets and prepared for resale.
- Researched equipment value and verified if equipment remained viable.
- Managed inventory, adding bar codes and recorded into system for tracking.

## OTHER WORK EXPERIENCE

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**Teaching Assistant** | *Camp Lincolnshire* | *Lincolnshire, IL*

Summers 2013 - 2017