Mitchell Arndt

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EDUCATION

Purdue University | West Lafayette, IN **Class of Fall 2021**
Bachelor of Science in Electrical Engineering – Honors College
Computer Science Minor
Certificate of Entrepreneurship and Innovation GPA: 3.95

Purdue University | West Lafayette, IN **Class of Fall 2022**
Master of Science in Computer Architecture

EXPERIENCE – View Online Portfolio At https://marndt26.github.io/

Computer Design and Prototyping Lab | West Lafayette, IN **August 2019 – December 2019**
Computer Engineering Laboratory
- Designed a dual core, pipelined microprocessor with I & D caches using the MSI coherence protocol
- Created tests for microprocessor design with System Verilog test benches and parallel assembly programs

Autonomous Motorsports Purdue | West Lafayette, IN **May 2019 – Present**
Electrical Lead Engineer
- Designed self-driving race car to autonomously navigate the track at high speeds
- Created custom PCB using KiCad to route control signals from microcontroller to electrical subsystems
- Designed C code on microcontroller to interpret serial commands and output analog and digital control signals

Purdue Neurotrauma Group | West Lafayette, IN **Dec 2019 – Present**
Research Assistant
- Designed data collection circuitry for measuring the forces of a football tackle
- Programmed microcontroller to collect 120 analog channels at a 1kHz sampling rate and write data to SD card

Northrop Grumman | Chandler, AZ **June 2021 – August 2021**
Electrical Engineering Intern in Launch Vehicles Division
- Designed graphical RSS Error Budget Analysis Tool for analog avionics sensors using Python and JavaScript

E3 Displays | Phoenix, AZ **May 2020 – August 2020**
Electrical Engineering Intern
- Designed and implemented ventilator touch display manufacturing test bench
- Designed embedded system to automate adhesive dispensing with precise mass and temperature

Card Connect | Phoenix, AZ **May 2019 – Present**
Current Software Consultant
- Produce new business management applications based on growing and changing needs

Software Development Intern
- Automated payroll system using JavaFX to streamline the employee payroll process
- Developed program to analyze Google AdWords for efficient pay-per-click lead bidding

LEADERSHIP & PHILANTHROPY

Tau Beta Pi Engineering Honor Society **Spring 2020 – Present**

Zeta Beta Tau Fraternity — Athletics Chair, Freshman Class President **2018 – Present**
- Puppies on the porch, Get on the Ball (Riley's Children Hospital), PUDM

SKILLS & CERTIFICATIONS

Programming Languages: C, C++, Java, JavaFX, Python, Nodejs, Vue, Arduino, MATLAB

Technical Skills: System Verilog, QuestaSim, Design Compiler, Git/GitHub, KiCad, STM CubeMX, LTspice

Lab Certification: Biotility National Certification for Biotechnician Assistant (2018) – Certified from Florida St. University

ACADEMIC HONORS & AWARDS

- Purdue University Dean's List: Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021