**Mitchell Arndt**

3101 N. Valencia Ln. Phoenix, AZ 85018

(602) 576-5105 | [mitchaarndt@gmail.com](mailto:mitchaarndt@gmail.com)

**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: 3.96

**Purdue University** | West Lafayette, IN**Class of Fall 2022**

*Master of Science in Computer Architecture*GPA: 3.73

**EXPERIENCE** – **View Online Portfolio At** [**https://marndt26.github.io/**](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 SocietySpring 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, Antlr, 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, Fall 2021