**Mitchell Arndt**

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**EDUCATION**

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

*Bachelor of Science in Electrical Engineering – Honors College*

*Computer Science Minor, Certificate of Entrepreneurship and Innovation* ***GPA: 3.97***

**EXPERIENCE**

**Autonomous Motorsports Purdue** | West Lafayette, IN**May 2019 – Present**

*Electrical Lead Engineer*

* Designed self-driving race car to compete at the Indy 500
* Created custom PCB using KiCad to route control signals from TI microprocessor to servo motors
* Designed C code on microcontroller to interpret serial commands and output digital and analog control signals

**Purdue Neurotrauma Group** | West Lafayette, IN**Dec 2019 – Present**

*Undergraduate Research Assistant*

* Designed data collection circuitry for measuring the forces of a football tackle
* Programmed microcontroller to collect 60 channel analog data with a 1kHz sampling rate and write to SD card

**E3 Displays** | Phoenix, AZ**May 2020 – August 2020**

*Electrical Engineering Intern*

* Designed and implemented ventilator touch display manufacturing test bench
* Designed automated display adhesive dispenser user control box using an Arduino Microcontroller

**Card Connect** | Phoenix, AZ**May 2019 – Present**

*Software Development Intern*

* Automated payroll system using JavaFX to streamline the employee payment process
* Developed program to analyze Google AdWords for efficient pay per click lead bidding

**First Data Independent Sales** | Phoenix, AZ**May – Aug: 2018 – 2019**

*Sales Agent*

* Assisted clients with the EMV chip card setup for their POS system in order to eliminate charge backs

**Autonomous Robot Team – Honors Engineering** | West Lafayette, IN**Aug 2018 – May 2019**

*Software Design Lead*

* Worked with Python to develop autonomous algorithm to guide robot through maze, map surrounding environment for electrical and thermal hazards, and avoid physical obstacles

**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:** Java, JavaFX, C, C++, Nodejs, Arduino, Python, MatLab

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

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

**ACADEMIC HONORS & AWARDS**

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| * Purdue University Dean’s List (4 Semesters) * Charros Male Student of the Year (2018) * First Team National Football Foundation’s Scholar Athlete (2018) * Scholarship for Outstanding Student-Athlete (2018) | * AP Scholar with Distinction Award (2017) * Outstanding Student Award: * 4 Year Math and Science (2018) * BC Calculus (2017), Calculus III/Differential Equations (2018) |