

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: 3.95

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 Neurological 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

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

- 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)