

# Mitchell Arndt

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## EDUCATION

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**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** – view online portfolio at <https://marndt26.github.io/>

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**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

**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

**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

## LEADERSHIP & PHILANTHROPY

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**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

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**Programming Languages:** C, C++, Java, JavaFX, Python, Nodejs, Vue, Arduino, 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 (6 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)