## TYLER JULIAN

#### 4th year Computer engineering Student

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## **EDUCATION**

# Computer Engineering & Minor in Computer Science University of Oklahoma

August 2016 - Present

## **INVOLVEMENT**

## Electrical Lead, Intelligent Ground Vehicle Competition-(Sooner Competitive Robotics)

May 2019 - Present

- Designed PCBs for controlling motors for our Intelligent Ground Vehicle Competition team.
- Designed Emergency stop system that prevents the robot from moving the motors when the E-stop button is pressed or the robot loses connection to the safety remote.
- Designed and built the electrical system for our robot.
- Wrote lane detection software for our software team.

### Captain, Mercury - (Sooner Competitive Robotics)

## August 2018 - April 2019

- Worked with each of the sub-teams to design and build the robot.
- Designed power system for Mercury robot.
- 2nd at 2019 Mercury challenge competition.

#### Treasurer - (Sooner Competitive Robotics)

may 2019 - may 2019

- Managed and raised funds for our four competition teams.
- Mentored our new team members

#### Electrical Lead IEEE/Sumobot (Sooner Competitive Robotics)

## August 2016 - May 2018

Implemented components to pick up metal disk and read the color on the bottom of the disk.

#### Game Dev Association - University of Oklahoma

Set up workshops to teach aspiring developers at the University of Oklahoma

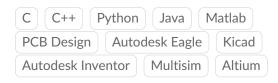
## **EXPERIENCE**

#### Project Manager - Digitization lab

The Digitization Lab digitizes approximately 90,000 images per year, using best practices for cultural-heritage digitization of early printed books, large atlases, maps, lithographs, and diverse manuscript collections.

Train new employees and provide quality control for projects and deliverables.

## **SKILLS**



## FIELD OF INTEREST

- Robotics and Computer Vision
- Embedded systems programming
- PCB design

## **COURSEWORK**

- Microprocessor System design
- Data Structures
- Signals and Systems
- Probability and Statistics
- Discrete Mathematics
- Linear Algebra
- Electronics Lab
- Digital Design Lab
- Computer Vision
- Intro to Intelligent Robotics (ongoing)
- VLSI Digital Systems (ongoing)

## **PERSONAL PROJECTS**

#### **Dungeons And Madlibs-Hacklahoma 2020**

₩ Feb 2020

I created a script for our team's website that reads dice and sums the total using computer vision. Our team was 3rd out of 58 teams

#### BeeClick.org-Hacklahoma 2019

₩ Feb 2019

♥ Norman, Oklahoma

Our team designed a simple idle game based around bees. Our team was 5th out of 52 teams.

#### Hacklahoma 2018

₩ Feb 2018

♥ Norman, Oklahoma

Our team was 7th out of 49 teams.