TYLER JULIAN

4th year Computer engineering Student

@ Tyler.James.Julian@ou.edu   📞 580-583-7906   📍 Norman, Oklahoma   ⚡ github.com/TylerJulian   TylerJulian.com

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)

📅 Sept 2018 - 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

📅 Sept 2016 - Present
itemize
Set up workshops to teach aspiring developers at the University of Oklahoma

EXPERIENCE

Project Manager - Digitization lab

📅 Jan 2019 - Present
itemize
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

C   C++   Python   Java   Matlab   PCB Design   Autodesk Eagle   Kicad   Autodesk Inventor   Multisim   Altium

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.