

RESUME

Kaushal Prasath

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I am a rising Junior at Liberty High School (Class of 2025), doing honors and AP subjects. I am fascinated about Robotics and have been actively involved in various levels of FIRST competitions since 3rd Grade and won multiple awards. I am a Young Adult Mentor for a 'First Lego League' team. I am passionate about Math and Science, competing in AMC math. I am an active Boys Scout involved in leadership, community projects and pursuing Eagle rank. Also, I enjoy teaching robotics to younger kids, playing football and running track. I am looking forward to learning more about different career paths and exploring STEM opportunities.

Experience

Research Intern - InspiritAI

Research Project - Distracted Drivers

July'22 - two weeks

We created an AI system that would recognize when a driver is distracted from the road and notifying them if needed. We used convolutional neural networks on the data on images of distracted drivers, classifying them into four categories (attentive, drinking, changing radio, and looking in the mirror). We then use saliency maps to recognize the pixel contribution from different convolutional layers. A confusion matrix was then used to display our AI's findings. The AI will then notify the driver that they need to pay attention to the road by playing a sound or sending a notification on the car's dashboard (if it has one). As a team member, I am responsible for building Python code to categorize images and data sets.

Team Lead - Mechanical and Electrical

First Robotics Competition - 8055 EGM Robotics

August 2021 - Present

As Mechanical and Electrical Lead I have designed and executed all mechanical and electrical tasks to build a robot for competition use.

Award: District Engineering Inspiration Award - 2022

Award: District Quality Award - 2022

Award: State Innovation in Control Award - 2022

Pit Crew Member

First Robotics Competition - 747 Flight Crew

November 2019 - April 2020

I was responsible for making sure the robot was ready for competition after each round as well as helping in building the robot as a Pit Crew member

Award: Mahalo (Gracious Professionalism) Award - 2019

Award: District Finalist - 2019

Team Lead - Robot Build and Programming

First Lego League - 25663 Brick Masters

September 2018 - March 2020

As Mechanical Lead I would build the robot and action components needed to compete

Awards: 1st place - Robot Design (Regional) - 2018

Awards: 1st place - Robot Game (Regional) - 2019

Awards: 2nd place - Gracious Professionalism (States) - 2020

Team Member

First Lego League - 25663 Brick Masters

September 2016 - September 2018

As a Team member Kaushal worked along with the team in programming, built the robot and attachments, and created a project idea.

Awards: 2nd place - Core Values (Regional) -2017

Education

Rising Junior - Liberty High School

Class of 2025

AP Human Geography

Core Subjects - Honors level.

Awards & Certificates

Tae Kwon Do - Black Belt 1st Degree

1st Place - MOEMS Math Competition

AMC 10A - Above 80%

Edison Township Schools Track & Field - 1st Place - 100m & 4x100 Relay

Volunteering

Mentoring Young kids to learn Robotics

Pursuing Eagle Rank - Boy Scouts of America

September 2016 - Present

Kaushal held various leadership roles and participated in multiple projects to serve the community. As a raising Eagle scout, he is working on raising funds to carry out individual projects.