

# Kaushal Prasath

Technophile, Robotician, and AI Enthusiast

[kaushalprasath@gmail.com](mailto:kaushalprasath@gmail.com)

## Education

**Liberty High School**

Grade 9 - 12

Grad. May 2025 | Frisco, TX,  
USA

## Skills

### Programming

Fluent - Python, Java

Skilled - HTML, CSS

### Machine Learning

Tensorflow - PyTorch, Keras,

NumPy, Pandas - NLTK

Robotics

Areas of Work

Mechanical Engineering

Electrical Engineering

Computer Vision

Ecosystems

ROS - ROS 2 - Humble - Modern

Robotics - LabVIEW - EV3 - NXT

### 3D Modeling

Onshape - Fusion360 - AutoCAD

Athletics

Football - Offense, Defense,

Special Teams

Track - Sprinter and Relay

Sprinter Cricket - All-Rounder

and Trainer

## Coursework

### High School

AP Calculus BC

AP Physics 1

AP Computer Science A

AP Seminar

### Certification

Certified Entry-Level Python

Programmer Certification (PCEP)

## Links

<http://KaushalP55.github.io>

<https://www.linkedin.com/in/kaushal-prasath-60601a228/>

Mail: [kaushalprasath@gmail.com](mailto:kaushalprasath@gmail.com)

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## Experience

**Founder @ Invention-Shield - <http://invention-shield.co>**

*July 2024 – Present*

**Industrial Technology Analytics Intern @ Ausweg Automation**

*June 2023 - September 2023*

**Founder @ LearnEV3 <http://learnev3.com>**

*June 2022 – Present*

**Author: Run for Life – Unleashing the Power of Running for Fitness and Wellness (Published in Amazon)**

*June 2023 – August 2024*

## Research

**Knees Osteoarthritis Detection using Machine Learning and Deep Learning**

- Created a system for detection of knee osteoarthritis by scanning x-ray scans and presented study at UT Dallas

**Enhancing Road Safety Through Inter-Vehicle Communication**

- Created a system for inter-vehicle communication to improve road safety by using AI provided solutions.

**Distracted Driver Detection using Computer Vision**

- Created an AI system that recognizes when a driver is distracted and alerts them, to promote road safety.

## Robotics

**Founder and Mechanical & Electrical Captain @ Singularity Robotics #10032**

*May 2024 - Present*

**Mechanical & Electrical Captain @ Heatwave Robotics #9407**

*August 2023-May 2024*

**Mechanical & Electrical Lead @ EGM Robotics #8055**

*August 2021-August 2022*

## Honors

2024 – National - Eagle Scout, Boy Scouts of America

2024 - National - AP Scholar Award, College Board

2024 - State - Rookie Inspiration Award Winner, FIRST Robotics Competition Team

2024 - State - Event Finalist, FIRST Robotics Competition Team

2023 - National - AP Scholar Award, College Board

2022 - State - Innovation in Control Award Winner, FIRST Robotics Competition Team

2022 - State - Quality Award Winner, FIRST Robotics Competition Team

2022 - State - District Engineering Inspiration Award Winner, FIRST Robotics Competition Team