

# Keshav Anand

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 🔗 keshavanandcode

## Education

### Plano East Senior High School, Plano

August 2023 – May 2027

STEM and Multidisciplinary Endorsement

- GPA: 4.73/4.0 ([View Unofficial Transcript](#) 🔗)
- Class Rank: **1/1273**
- **Current Coursework:** AP Chemistry, American Studies (AP US History + AP English Language), Digital Electronics, AP Physics I, Calculus III (via Collin College)
- SAT: 1550/1600 — Reading 760/800, Maths 790/800

## Key Projects and Work

### TEG Powered Self-Stirring Device (2023-2024)

[Project Portfolio](#) 🔗

- Built novel prototype to harvest thermal energy for automatic stirring while cooking

### GaitGuardian: IMU Processing for Parkinson's Disease (2024-Present)

[Project Portfolio](#) 🔗

- Constructed novel hybrid biLSTM + CNN architecture for Freezing of Gait prediction
- Signal processing and segmentation to reduce subject-dependence
- State-of-the-art metric performance while being end-to-end functional

### FTC Technical Turbulence Lead Software Developer (2023-Present)

[2024-25 Github Repo](#) 🔗

- Custom inverse kinematics pathing and Computer Vision for Autonomous Navigation
- World top-30 FTC team for autonomous software, FTC State Finalist

## Awards and Honors

### Thermoelectric Generator Research Project

2024

- Dallas Fair: 1st in Engineering, US Air Force Recognition, USMA Best SI Units
- **International Science and Engineering Fair (ISEF) Finalist**

### GaitGuardian: ML and Signal Processing for PD Research

2025

- Dallas Fair: 1st in Systems Software, **Grand Prize** Runner-Up, TI Best Computing Project 2nd
- ISEF Finalist, **ISEF 3rd in Robotics and Intelligent Systems** (\$1200)

### FTC Technical Turbulence, State Division Finalist, Innovate Award Winner

2024

### National Speech & Debate Impromptu Quarterfinalist, State Quarterfinalist

2025

## Other Activities

**Vice President, LASER:** Guiding and instructing 120+ students for Science Fair

**Founder, Cricket Club:** Former USA U15 Cricketer → Formed Plano East's first cricket team

**Technology Officer, NHS:** Coded and maintained React-based portal for largest NHS chapter in the US

**Indian Film Music:** Bass Guitar, Keyboard, and Arrangement. Live concerts with profits going to charity

## Skills

**Programming Languages:** Java, Python, Bash, C++ (Arduino), Kotlin (FTC), Limited HTML, JS, CSS

**Programming Applications:** Machine Learning, Signal Processing, Tensor Flow, Computer Vision

**Miscellaneous:** Public Speaking, CAD, PCB Design, Electrical, Competition Math