

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

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)

National Speech & Debate Impromptu Quarterfinalist, State Quarterfinalist

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)

Other Activities

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

Founder, Cricket Club: Formed, coached, and captained Plano East's first tapeball 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