Keshav Anand

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Education

Plano East Senior High School, Plano *August 2023 – May 2027*
STEM and Multidisciplinary Endorsement

- GPA: 4.73/4.0 (View Unnoficial 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, Keys, and Arrangement, member of High Octavez *Original Music Library*

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