

Keshav Anand

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🔗 keshavanandcode

Education

Plano East Senior High School, Plano <i>STEM and Multidisciplinary Endorsement</i>	<i>August 2023 – May 2027</i>
○ 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	<i>2024</i>
○ 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	<i>2025</i>
○ 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	<i>2024</i>
National Speech & Debate Impromptu Quarterfinalist , State Quarterfinalist	<i>2025</i>

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