

# Keshav Anand

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## Education

<b>Plano East Senior High School, Plano</b> <i>STEM and Multidisciplinary Endorsement</i>	<i>August 2023 – May 2027</i>
<ul style="list-style-type: none"> <li>○ GPA: 4.73/4.0 (<a href="#">View Unofficial Transcript ↗</a>)</li> <li>○ Class Rank: <b>1/1273</b></li> <li>○ <b>Current Coursework:</b> AP Chemistry, American Studies (AP US History + AP English Language), Digital Electronics, AP Physics I, Calculus III (via Collin College)</li> <li>○ SAT: 1550/1600 — Reading 760/800, Maths 790/800</li> <li>○ ACT: 36/36 — Maths 36, Reading 36, Science 36, English 35</li> </ul>	

## Key Projects and Work

<b>TEG Powered Self-Stirring Device</b> (2023-2024)	<a href="#">Project Portfolio ↗</a>
<ul style="list-style-type: none"> <li>○ Built novel prototype to harvest thermal energy for automatic stirring while cooking</li> </ul>	
<b>GaitGuardian: IMU Processing for Parkinson's Disease</b> (2024-Present)	<a href="#">Project Portfolio ↗</a>
<ul style="list-style-type: none"> <li>○ Constructed novel hybrid biLSTM + CNN architecture for Freezing of Gait prediction</li> <li>○ Signal processing and segmentation to reduce subject-dependence</li> <li>○ State-of-the-art metric performance while being end-to-end functional</li> </ul>	
<b>FTC Technical Turbulence Lead Software Developer</b> (2023-Present)	<a href="#">2024-25 Github Repo ↗</a>
<ul style="list-style-type: none"> <li>○ Custom inverse kinematics pathing and Computer Vision for Autonomous Navigation</li> <li>○ World top-30 FTC team for autonomous software, FTC State Finalist</li> </ul>	

## Awards and Honors

<b>Thermoelectric Generator Research Project</b>	<i>2024</i>
<ul style="list-style-type: none"> <li>○ Dallas Fair: 1st in Engineering, US Air Force Recognition, USMA Best SI Units</li> <li>○ <b>International Science and Engineering Fair (ISEF) Finalist</b></li> </ul>	
<b>GaitGuardian: ML and Signal Processing for PD Research</b>	<i>2025</i>
<ul style="list-style-type: none"> <li>○ Dallas Fair: 1st in Systems Software, <b>Grand Prize</b> Runner-Up, TI Best Computing Project 2nd</li> <li>○ ISEF Finalist, <b>ISEF 3rd in Robotics and Intelligent Systems</b> (\$1200)</li> </ul>	
<b>FTC Technical Turbulence</b> , State Division Finalist, Innovate Award Winner	<i>2024</i>
<b>National Speech &amp; Debate Impromptu Quarterfinalist</b> , State Quarterfinalist	<i>2025</i>

## 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, keyboardist for High Octavez Charity Band

## Skills

- Programming Languages:** Java, Python, Bash, C++ (Arduino), Rust (Limited), Javascript
- Programming Applications:** Machine Learning, Signal Processing, Backend Server Development, Linux
- Miscellaneous:** Public Speaking, CAD, PCB Design, Electrical, Competition Math