

Vignesh Rajesham Pidugu

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Objective:

Motivated Electrical Engineering student with a strong foundation in power systems, embedded control, and electric mobility. Seeking opportunities to apply technical skills and innovative problem-solving in projects related to smart grids, battery management, and electric vehicles.

Education :

2026	B.Tech [Electrical Engineering] <i>G H Raisonni College Of Engineering & Management ,Pune</i> Savatribai Phule Pune University (SPPU)) CGPA: 8.91 (Sem VI)
2022	Class XII <i>Z.P Higher Secondary School, Sironcha</i> Maharashtra State Board of Secondary & Higher Secondary Education 74.33%
2020	Class X <i>Global Media Kerala Model E/M School, Allapalli</i> Maharashtra State Board of Secondary & Higher Secondary Education 88%

Technical Skills:

Ms office ● ● ● ● ● Matlab

PSIM

Languages:

- English
- Hindi
- Marathi
- Telugu

Extracurricular Activities:

08/2024 – Present G H Raisonni college of engineering and management pune	EV Club <i>Co-ordinator</i> EV Club Coordinator – Organized workshops and activities to promote awareness and innovation in electric vehicle technology.
06/2024 – Present G H Raisonni college of engineering and management pune	Team Abhyuday Racing <i>Team Manager</i> Team Manager, SAEINDIA eBAJA – Led the electric ATV team, managed design, fabrication, and event coordination.
05/2024 – Present G H Raisonni college of engineering and management pune	EESA <i>Vice President</i> Vice President, EESA – Organized workshops and technical activities for electrical engineering students

Projects :

08/2025 – Present	Smart Thermal-Aware Battery Management System Developed an intelligent BMS with real-time thermal sensing and adaptive cooling to enhance battery performance and safety
06/2024 – Present	Electric All-Terrain Vehicle (eBAJA SAEINDIA) <i>National-Level Engineering Competition</i> Developed an electric ATV as part of SAEINDIA e-baja, focusing on vehicle electrification, battery pack integration, and safety system design. Collaborated with multidisciplinary teams for fabrication, testing, and competition readiness.
08/2024 – 10/2025	Electric to Autonomous All-Terrain Vehicle (SAEINDIA eBAJA & aBAJA) <i>National-Level Electric & Autonomous Vehicle Development</i> Developed an electric all-terrain vehicle for SAEINDIA eBAJA and later upgraded it with autonomous capabilities for aBAJA. Worked on vehicle electrification, control systems, and sensor integration for semi-autonomous navigation and testing.

Certifications:

- 1. power electronic
- 2. Matlab

Strengths

Problem solving Ability

Teamwork & Communication

Project Management & Leadership