

Sathyajith A

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OBJECTIVE

Passionate Electrical and Electronics Engineering undergraduate with strong interests in power electronics, electrical machines and power systems. Experienced in circuit design, simulation, and controller-based system development through academic and industry-oriented projects. Seeking to contribute to a technically driven organization where analytical skills, hands-on project experience, and a strong foundation in electrical engineering principles can be applied to develop reliable, efficient, and high-performance electrical systems while continuously learning and growing as an engineer.

EDUCATION

Bachelor of Engineering, Electrical and Electronics Engineering (B.E. EEE)

PSG College of Technology, Coimbatore, India

Year of Graduation: 2027

FIELDS OF INTEREST

- Digital Electronics
 - Power Electronics
 - Embedded Controllers
 - DC and AC Machines
 - Power System
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TECHNICAL SKILLS

- **Programming & HDL:** C, Python, Verilog
 - **Simulation & Design:** MATLAB, LTspice, Proteus, Multisim, TinkerCAD
 - **Microcontrollers:** TMS320F28027F, Arduino UNO, ESP32
 - **Embedded & Control Tools:** Arduino IDE, Keil μ Vision
 - **Web Development:** HTML, CSS, JavaScript
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PROJECTS

- A Cost-Effective **Power Quality Analyzer** using Hybrid Signal Processing Techniques.
- **Non-Invasive Condition Monitoring** and **Remaining Useful Life Prediction of DC-link Capacitors** in Electric Drives using Hybrid Physics-ML models.
- A **Web-Based Resistor Colour Code Calculator** that converts resistor bands to their corresponding resistance values and vice versa.
- An **Analog PID Controller** for DC motor speed regulation.
- **Underground Cable Fault Detection** system.
- **Braille-to-Text Converter** for assistive communication.

COCURRICULAR/EXTRACURRICULAR ACTIVITIES

- **Danfoss Innovator Award 2026 - Winner**
 - Head of Design Team, EEE Association, PSG Tech.
 - Active Member, Web Development Team, IEEE SC 12951, PSG Tech.
 - Served for 3 years in **NCC** under the 2 (TN) CTC NCC unit, where I held the rank of **Sergeant**.
 - Completed both the NCC '**B**' and '**C**' certificate examinations with an '**A**' Grade.
 - **Academic Excellence Award**, Association of Matriculation Schools, Coimbatore – For securing full marks in Physics, Chemistry and Mathematics in HSE, March 2023.
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DECLARATION

I, Sathyajith A, do hereby confirm that the information given above is true to the best of my knowledge.

Coimbatore,
23/05/2026

Sathyajith A