Pradyunn Kale

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Low-Level Software | Embedded Systems | Hardware

SKILLS

- **Programming:** C, C++, Python, Java, JavaScript, HTML/CSS, React
- **Embedded & Hardware:** STM32, Driver Development, KiCad, PCB Design (routing/layout), Sensors & Data Acquisition Systems
- **Tools & Platforms:** Git, Visual Studio Code, STM32CubeIDE, Linux, Microsoft Office
- **CAD & Design:** SolidWorks, Fusion 360, AutoCAD, Inventor
- **Other:** Photoshop, DaVinci Resolve

EXPERIENCE

Purdue Space Program (A SEDS Chapter), West Lafayette, IN June 2025 – Present

Liquids Team Member, Avionics Engineering

- Designed STM32 board for power and data acquisition systems,
- Developed and maintained embedded drivers for sensors and data acquisition hardware to ensure reliable real-time telemetry.
- Designed PCB routing and layout to optimize signal integrity and power distribution across avionics components.

STEAM Exploration Program, Cambridge, MA July 2024 – August 2024

Summer Intern

- Explored science, technology, engineering, arts, and math fields like architecture, biotech, and construction.
- Engaged in networking with professionals at 10-11 local companies.
- Build communication and teamwork skills through fun activities.

EDUCATION

Purdue University, West Lafayette, IN August 2025 – Present (Expected May 2029)

Bachelor of Science in Electrical Engineering

- Relevant Coursework: Calculus I-III, Differential Equations, Programming with C, Physics I & II
- Cumulative GPA: N/A

Cambridge Rindge & Latin School, Cambridge, MA September 2023 – June 2025

Grade 11-12

- Relevant Coursework: Multivariable Calculus, AP Physics C: Mechanics & Electricity and Magnetism, AP Statistics, AP Computer Science A, AP Chemistry, Hands on Programming with Arduinos (Engineering)
- Relevant Projects: Programmed an interface which securely keeps phones in cubbies using a stepper motor, keypad and LCD; Built and programmed a car controlled by radio waves; a PID control system to balance a ball.
- Cumulative GPA: 97.03/100.00

Harvard Extension School, Cambridge, MA September 2024 – May 2025

Grade 12

- Relevant Coursework: MATH-21B: Linear Algebra & Differential Equations (Grade: B), CSCI E-7: Introduction to Computer Science with Python (Grade: A)