Thivyanth M V   **22B1836**
Engineering Physics   **B.Tech.**
Indian Institute of Technology Bombay   **Gender: Male**
                                                   DOB: 08/04/2004

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2026	7.51
Intermediate	CBSE	Green Park School	2022	86.40%
Matriculation	CBSE	Green Park School	2020	91.80%

Pursuing Honors in **Engineering Physics**

SCHOLASTIC ACHIEVEMENTS

- Awarded **AA grade** in *Management (SOM-101)* for proficiency in the subject.   *(May '23)*

TECHNICAL EXPERIENCE

Machine Learning Subsystem Trainee | *Team AeRoVe of UMIC*   *(Oct '23 - Present)*
Team AeRoVe of UMIC is on a never-ending pursuit of developing an ultimate system of autonomous fixed-wing as well as multirotor aircraft. Incorporating different subsystems namely 'Mechatronics', 'Controls', 'Machine Learning', 'Perception', 'Path Planning', and 'Localisation', the team emphatically covers every aspect to forge a de rigueur system of autonomous aerial vehicles.

- **Selected** among the **top 6 out of 20** interviewees for the subsystem.

KEY PROJECTS

Obstacle Removing Line Follower robot | *MS 101 Course Project*   *(Nov '22 - Feb '23)*
Guide: Prof(s). D.K. Sharma and Joseph John (Department of Electrical Engineering)
- Designed and developed line follower bot using **Arduino**, implementing a simple, effective and robust algorithm
- Used **Fusion 360** for precise 3D modeling, **LaserCAD** for developing laser-cutting templates and Fractory to 3D print various mechanical components which were coupled with circuit designing to make a more reliable bot
- Distinguished as one of the top-performing teams, earning a coveted spot among the **top 24 teams out of 120**, for the exclusive opportunity to showcase our project in front of esteemed faculty members and deans

Havells India Analysis | *Introduction To Management SOM-101 Course Project*   *(Apr '23 - May '23)*
Guide: Prof. Ashish Pandey (Department of Shailesh J. Mehta School of Management)
- **Placement of its businesses/products/services in GE 3x3 matrix**: Analyzed Havells India's products and services in terms of Industry Attractiveness, Profit Margin, and Business Unit Strength. Key findings include the strengths of Cables and Electrical Consumer Durables, as well as recommendations for areas like Lighting and Fixtures.
- **Analyzing Havells India's Generic Strategy for Achieving Competitive Advantage**: Identified Havells India's approach in terms of cost leadership, differentiation, and focus. The report concludes that Havells primarily follows a differentiation strategy complemented by elements of cost leadership and focus.
- **Organizational Design of Havells India Limited**: Analyzed the organizational structure and stakeholder engagement of Havells India. The study highlighted the company's interactions with dealers, vendors, communities, regulators, and others, providing insights into its comprehensive organizational design.
- **SWOT and TOWS of Havells India Limited**: Conducted a SWOT analysis identifying strengths, weaknesses, opportunities, and threats for Havells India. Utilized the TOWS matrix to determine strategic actions leveraging internal strengths/weaknesses against external opportunities/threats.

TECHNICAL SKILLS

- **Softwares**: Mathematica, Git, LTSpice, Fusion 360, Linux
- **Languages**: LaTeX, Wolfram Language, Python, C, C++, HTML, CSS, Javascript, Bash

Key Courses

Physics and Electronics	• Quantum Physics*, Classical Mechanics*, Artifial Intelligence and Data Science*, Analog Electronics*, Nonlinear Dynamics*
Mathematics	• Calculus, Linear Algebra, Differential Equations, Complex Analysis and Integral Transform*
Computer Science	• Computer Programming and Utilisation, Makerspace
Miscellaneous	• Physical, Organic & Inorganic Chemistry, Biology

* courses will be completed by November 2023

Extracurriculars

Sports	• Was a part of the National Sports Organization - **Weightlifting** for a year, showcasing my grit and passion for fitness