Aditya Dwivedi

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SUMMARY

Engineering student with experience in C++, Python, Assembly and hardware integration. Good background in robotics and Rockets. Proven ability to lead product development from concept to market.

EDUCATION

Bachelor of Engineering in Computer Engineering

NBNSTIC • Pune , INDIA

CERTIFICATIONS

Payload Engineer

Latin American Space Challenge • 2023

- Demonstrated expertise in optimizing payload configurations to meet mission objectives, ensuring efficient utilization of resources and maximizing scientific output.
- Collaborated effectively with multidisciplinary teams, leveraging my certification to communicate technical concepts and drive project outcomes.

Lean Six Sigma

Binghamton University • 2022

- Lean Six Sigma is a process improvement approach that uses a collaborative team effort to improve performance by systematically removing operational waste and reducing process variation

COURSEWORK

Google Cloud Skills

Google Skills Boost • 2022 • Google Cloud core infrastructure

- handling google cloud backend

INVOLVEMENT

Company Sargent Major (CSM)

Holy Cross S.S.School Kapa • National Cadet Corps (NCC) • March 2017 - April 2019

- Awarded as the Best NCC Cadet.
- Led and supervised a company of cadets during drills, training sessions, and various NCC activities.
- Represented the company and NCC unit in inter-unit competitions, camps, and other official functions, achieving commendable results.
- Mentored and trained junior cadets in discipline, leadership, and military skills.
- Ensured the smooth functioning of the company by coordinating with officers, instructors, and fellow cadets.

PAYLOAD ENGINEER

STES, Pune • STES ROCKETRY • February 2023 - Present

- Designing and developing payloads for experimental rocket launches, ensuring compliance with project objectives and technical specifications.
- Analysing data collected from payload experiments to evaluate performance.
- Participating in project planning and strategy meetings, providing technical expertise and contributing to decision-making processes.

PROJECTS

Acoustic Particle Levitation

STES ROCKETRY • February 2023 - October 2023

- Designed and implemented experimental setups for acoustic levitator, utilizing transducers, and control systems to generate standing waves.
- Conducted feasibility studies and theoretical analyses to optimize levitation parameters, including frequency, amplitude, for stable levitation.
- Conducted extensive experimentation and data analysis to characterize the behaviour of levitated particles, investigating pressure distribution.
- Presented research findings at seminar, disseminating knowledge and promoting the potential of acoustic levitation technology in diverse fields.

IR Sensor Tracking Vehicle

SCHOOL SCIENCE PROJECT • September 2019 - October 2019

- Lead a Team of 8 students.

SKILLS

Front End :- HTML, CSS , XML **HARDWARE :- Arduino , XBee ,PCB schematics**
Languages :- Python , C++ , ASSEMBLY