

Abhay Negi

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Experience

ADCS Lead • Space and Satellite Systems (CubeSat Mission) September, 2017 – Present

Guide and manage operations of Attitude Determination and Controls Sub-system to promote quality, productivity, and teamwork. Team is developing PCB magnetic coil prototypes and reaction wheels that are to be developed in-house. ADCS team also collaborates with computer science team on orientating algorithms.

Wheels and Controls Team Member • Hyperloop at UC Davis January, 2018 – Present

Contribute to both wheels and controls sub-systems. Collaborate with peers, contribute design ideas, create CAD models, manufacture parts, program microcontrollers, and build circuitry for UC Davis' pod to be entered in the Hyperloop Competition. Team's focus is to improve on speed and safety of pod.

Designer and Drafter • Lab 9195 July, 2017 – Present

Work with physics professor and graduate students in lab. Integrate chamber with vacuum pump, electronics, and software. Used SolidWorks to design model and create technical drawings for vacuum deposition chamber to be used in DarkSide-50 dark matter research.

Race Director • The Pizza Run December, 2016 – March, 2017

Planned and directed race that brought together community to fund construction of track at Lowell High and successfully raised over \$15,000. As director, contacted sponsors, advertised to public, created budget, arranged supplies, worked out event logistics, coordinated 100+ volunteers and 250+ participants and more.

Vice President • Student Body Council, Lowell High August, 2015 – May 2016

Team Captain • Lowell Cross Country and Track August, 2015 – May 2016

Skills

Computer: SolidWorks, ESPRIT, MATLAB, Java, C, Python, HTML, CSS, MS Excel, Photoshop

Technical Skills: CNC Machining, Printed Circuit Board, Microcontrollers, Circuitry, Manufacturing

Communication: Experienced in public speaking, interpersonal communication, outreach, presentations

Languages: Fluent in Hindi and Urdu, Proficient in Spanish

Education

University of California, Davis September, 2016 – Present

- Bachelor Degree, Aerospace Science & Engineering (Expected June 2020)
- Bachelor Degree, Mechanical Engineering (Expected June 2020)
- UC GPA: 3.832, Engineering GPA: 3.907

Physics Honor Student September, 2016 – March, 2018

Enrolled in university physics honors series which teaches physics in greater depth, covering topics such as relativity, statistical mechanics, quantum mechanics, semiconductors, etc. with a rigorous approach