Sujit Shivaprasad

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EDUCATION

PURDUE UNIVERSITY
BS in Aeronautical and Astronautical Engineering
Expected Dec 2017
Minor in Mathematics

WESTLAKE HIGH SCHOOL
Grad. May 2013 | Austin, TX

LINKS

LinkedIn: **sujitshivaprasad**
Github: **sujitshivaprasad**

COURSEWORK

UNDERGRADUATE
Aeromechanics
Thermodynamics
Linear Algebra
Differential Equations
Aerospace Systems Design
Mechanics of Materials
Fluid Mechanics
Structural Analysis
Signals and Systems
Controls Systems Analysis
Dynamics and Vibrations
Flight Dynamics

SKILLS

PROGRAMMING
Experienced in:
Java • Matlab • C
Python • C++ • LaTeX
Abaqus • LS-Dyna
Bash • Visual Basic • CATIA
Familiar:
MySQL • ANSYS Fluent
HTML • Solidworks

ACTIVITIES

• Purdue Zero Gravity Flight Experiments
• Purdue EPICS

EXPERIENCE

SIMULATION ENGINEERING CO-OP Kinetic Vision
May 2016 – Aug 2017 | Cincinnati, OH

- Finite Element Analysis (FEA) of various products using Abaqus and LS-Dyna operated on Linux servers on High-Performance Computing systems.
- Experience meshing using Altair HyperMesh and CATIA.
- Developed FEA automation tools such as meshing and exporting simulation results with Python scripts.

PURDUE EPICS Student Engineer
Spring 2014 – Present | West Lafayette, IN

- VOSS GE Engine Blade Display (Fall 2015): Design Lead, in charge of designing and building an educational display for a GE-90 engine blade.
- AAEE Mars Rover (Spring 2014, Fall 2014): Developed and programmed the electrical system a life-size Mars Rover, worked with Arduino and Arduino C to code and communicate with the Rover and Robotic Arm.

INTERN | Center for Space Research, The University of Texas at Austin
May 2012 – Aug 2012 | Austin, TX

- Analyzed and investigated geographical data from the IceSat-1 satellite to optimize the successive satellite.

RESEARCH

MACHINE-TO-MACHINE LAB | Purdue University
Nov 2015 – Present | West Lafayette, IN
Under the supervision of Dr. Eric Matson, developing an autonomous drone to analyze chemical plumes in explosions and relay the information to a ground station using the Pixhawk autopilot.

AIR TRANSPORTATION MANAGEMENT LAB | Purdue University
May 2014 – Dec 2014 | West Lafayette, IN
Under the supervision of Dr. Dengfeng Sun, conceptualized and designed a flight simulation tool for optimizing traffic flow management using parameters such as aircraft model and ground speed to calculate flight time and fuel burn.

AWARDS

2015-16	Purdue EPICS Undergraduate Teaching Assistant
2014-16	Purdue EPICS Ambassador
2013-14	J Bonner Wampler Alumni Scholarship
2012	NASA High School Aerospace Scholar

SOCIETIES

2015-16	Purdue	Drone club
2014-15	National	The American Institute of Aeronautics and Astronautics (AIAA)
2014-15	Purdue	Hackers club