

Aditya Anikode

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EDUCATION

Rutgers University - School of Engineering (New Brunswick, NJ)

Graduation: May 2022

Major in Mechanical Engineering and Minor in Computer Science

GPA: 3.3, Total credits completed: 148

- Dean's List: 2019, 2020, 2021

- *Relevant Courses:* Aircraft Flight Dynamics, Aerodynamics, Spacecraft Mission Design, Dynamic Systems and Controls, Heat Transfer, Multiphysics Simulations, Design Mechanical Components, Intro to Artificial Intelligence, Alternative Energy, Mechanical Properties of Materials, SOLIDWORKS, Aerospace Lab, Mechanical Engineering Lab, Mechatronics, Packaging Engineering, Design and Manufacturing

WORK EXPERIENCE

Rutgers Makerspace, Piscataway, NJ

July 2021 - Present

Design Consultant and Pedagogy Facilitator

- Teach and assist Rutgers University students, faculty and staff, as well as Professor funded research projects from design to fabrication of personal projects using various machinery, ranging from 3D printers, laser cutting, Woodshop, CNC, UV printers, Embroidery and other systems.
- Handled monetary transactions directly with customers for processing material cost payments.

Rutgers School of Engineering, New Brunswick, NJ

January 2020-Present

Tutor/Mentor for Engineering Students

- Reinforce and help students assimilate course material for Fluid Mechanics, Thermodynamics, physics, and computer science topics
- Lead students in one on one and group sessions to develop problem solving skills essential to engineering

PROJECTS AND INVOLVEMENTS

AIAA - Rutgers Rocketry Propulsion Lab, New Brunswick, NJ

January 2021 - Present

Aerobody Team Lead and Telemetry Team Member

- Engage in design, manufacturing, and launching one and two stage rockets incorporated with L1 or L2 motors
 - Use of 3D printing, laser cutting, drilling, CNC, and additively manufactured components for aerodynamic, structural, and load bearing purposes to produce a rocket with easily reproducible parts, increased modularity, and design reinforcement
- Worked with a team to design the Eagle II v4 2 stage launch platform rocket for Spaceport America 2021 Competition
 - Employed SOLIDWORKS in constructing a modular rocket in which parts can be reused for multiple flights as well as OPENROCKET to simulate launch route systems

Pipeline Damage Detection, Modeling, and Prediction Research Project, New Brunswick, NJ

June 2021 - Present

- Designing a Bayesian Network Artificial Intelligence model to predict fatigue life of a pipeline based on equivalent initial flaw size in the material. Accurately predicting the most crucial time loading cycle when structure may become susceptible to failure.
- Finite Element Simulations (ABAQUS and COMSOL) performed on pipe models for several cases of crack length and depth in pipe wall thickness.

Zero Gravity Drone Project, New Brunswick, NJ

September 2021 - Present

- Utilized INAV flight controls software, MATLAB and SIMULINK for PID control, and SOLIDWORKS to design, fly, and test a drone under zero gravity conditions on Earth using an appropriate calculated flight profile.
- Employed SOLIDWORKS Simulation to simulate stresses and forces on each part to ensure its sustainability in real world applications. Applied ECALC data simulation software to select ideal components such as motors, batteries, etc for optimizing quadcopter efficiency and finding thrust, drag, acceleration, velocity numerical inputs for generating flight profile in MATLAB.

Rutgers Robotics Team, New Brunswick, NJ

VEX Robotics Team Member

July 2020- Present

- Design and engineer robots using FUSION 360, AUTOCAD, and Arduinos for VEXU Robotics competition. Exposure to ROS.

LEADERSHIP EXPERIENCE AND AWARDS

Lean Six Sigma Yellow Belt Certification

October 2020

Application of statistical, problem solving, and quality tools constituting significant value to the continuous improvement process

Institute of Electrical and Electronic Engineers

July 2020-Present

Public relations with general members

- Handle Public relation affairs for IEEE

CentraState Hospital Volunteer, Freehold, NJ

March 2016 - June 2017

Patient Discharge Services and Warehouse

- Transported patients scheduled for discharge from inpatient care to the main lobby. Interacted with patients and learned to cooperate with people of different age groups. Developed awareness of hospital functions, patient's trauma, and progression during his/her road to recovery

SKILLS & INTERESTS

Technical Skills: SOLIDWORKS, SIMULINK, Java, Python, MATLAB, COMSOL, ANSYS, OpenRocket, RockSim, ECALC, INAV, Working with Arduinos and Raspberry Pis, CNC, Woodshop, Laser Cutting, Microsoft Office, 3D-Printing, UV printing, Vinyl and Mat cutting

Soft Skills: Leadership, Adaptability, Communication, Patience, Conflict management, Time management, Public Speaking, Team Player, Puzzle and Problem Solving