

Aditi Kumar

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

4.00/4.00 GPA

Candidate for Bachelor of Science in Mechanical Engineering

Graduation: Spring 2019 (expected)

PROJECTS

AquaBots Team - Vertically Integrated Projects

Aug 2016-Present

- Ran flow simulations in SolidWorks to collect data on force, torque and pressure acting on AUV
- Calculated drag coefficient and read Hydrodynamics documentation to fill drag, inertia, gravity and Coriolis matrices

AeroHacks – Aerospace Engineering themed Hackathon

November 2016

- Designed humidity sensor drone to collect humidity data and accordingly fly drone
- Programmed in Arduino and JavaScript. Used AR Drone and Microduino. Won Best Data Analytics Hack Prize.

Toyota-Net Impact Next Generation Mobility Challenge

October 2016

- Designed and prototyped a transport system to help the elderly navigate public transport. Won Third Place.

ME 1770 Team Project

Feb 2016-May 2016

- Designed three parts of robotic dolphin in SolidWorks and made engineering drawings of full assembly and parts

RESEARCH

Underwater Acoustic Tags

Jan 2016-May 2016

- Researched critical angles at which most SONAR reflection occurs from metallic plates with different patterns
- Conducted experiments using Starfish SONAR equipment. Recorded values and plotted graphs using MATLAB

WORK EXPERIENCE

Georgia Tech Department of Housing

Aug 2016-Present

Student Staff Member (Peer Leader)

- Responsible for 28 residents on one floor of freshman residence hall
- Organized weekly programs for community building among residents and submitted reports to supervisors

SKILLS

Software Skills: SolidWorks, Inventor, AutoCAD (basic), MATLAB, Java, Microsoft Office

Languages: Hindi – native, English – fluent, French – conversational

Machining Skills: Waterjet, mill

Physics Concepts: Interaction of Physical Systems, Creation and Interaction of Electric and Magnetic Fields, Astronomy

Communication/Writing: Public speaking, presentations

LEADERSHIP

RoboJackets – Intelligent Ground Vehicle Competition

Sep 2016-Present

- Machined struts using end mill and frames using waterjet, modified CAD of castor wheel assembly, tapped holes

Residence Hall Association – Social Chair

Jan 2016-May 2016

- Created group chat for three residence halls and kept residents informed of on campus events. Organized game night

She's the First

Aug 2015-Aug 2016

- Attended weekly meetings to discuss topics of women's emancipation. Volunteered at Days for Girls in Atlanta