FirstName LastName

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EDUCATION

PRIVATE UNIVERSITY

M.S. Mechanical Engineering
Expected May 2017 | Somehwere, NY
Cum. GPA: 3.47/4.0
Fluid Dynamics & Thermal Systems
Controls & Dynamic Systems

B.S. Mechanical Engineering
Minor in Aerospace Engineering
Expected May 2017 | Somewhere, NY
Cum. GPA: 3.49/4.0

AWARDS

Dean's List
University Scholar
Who's Who Among Students Nominee
Fraternity Foundation Scholarship

SKILLS

PROGRAMMING

MATLAB • Python • Arduino

SOFTWARE

Simulink • Git • LabVIEW •
Creo Parametric • SolidWorks •
COMSOL Multiphysics • ANSYS

LEADERSHIP

NASA ORG

Director of Communications, 2016

FRATERNITY AT UNIVERSITY

Founding President, 2014-2016
New Member Educator, 2015

STUDENT ACTIVITIES

Student Council
Ext. Programming Chair, 2015
Secretary, 2014
Mentor, 2013-2015
New Student Orientation
Intern/Captain, 2015
Leader, 2013-2014

CULTURAL ORG. AT UNIV.

Vice President, 2015
Music Director, 2014-2015
Jr. Music Chair, 2013
Sophomore Representative, 2013

EXPERIENCE

NASA SPACE CENTER | Engineering Intern

Aug 2016 - Present | City, State

- Support International Space Station communication with Mission Control through rapid prototyping and simulation of acoustic diverters designed in Creo
- Develop optimization acoustic simulations in COMSOL for audio transmission in extravehicular activity space suits
- Redesign and build the mechanical and electronic systems of a radiation beam degrader in Arduino and LabVIEW
- Rapidly prototype versions of an audio interface unit based on human-in-the-loop feedback of astronauts for the Orion spacecraft
- Organize inter-center communications across the agency as the Director of Communications of the Pathways Agency Cross-Center Connection network

STARTUP | Applied Research Intern

Jun 2016 - Aug 2016 | City, State

- Startup was named "20xx's Most Innovative Company" by Fast
- Consulted with company stakeholders to determine the potential of physical technology to improve quality control, customer experience, etc.
- Developed computer vision algorithms in Python
- Prototyped wireless wearable technology with Arduino-compatible parts and processed data real time in Python
- Collaborated with a senior research to conduct a company-wide study evaluating trends in frame fit and facial features
- Devised and piloted an executive-approved program that integrates current company technologies

SPACEX HYPERLOOP POD COMPETITION | CFD Analyst

Feb 2016 - May 2016 | City, State

- Worked on an interdisciplinary team of University engineering students and placed in the final round of SpaceX's Hyperloop Competition
- Performed simulations and analyzed the air bearing subsystem in ANSYS Fluent to ensure cost-effective decision making
- Guided underclassmen on the design of test iterations and consulted on correct assumptions for successful simulations

SOME SCHOOL OF MEDICINE | Project Contributor

Sep 2015 - May 2016 | City, State

- Collaborated with other Univ. engineering students to improve the process of harvesting fly embryos by 300% for more frequent care of cancer patients
- Preliminarily validated design ideas using concepts of fluid dynamics and material properties to ensure safe transport of sensitive fly embryos
- Built the distribution axis system combining 3-D printed distributor head, linear rails, limit switches, belts, pulleys, and motors

UNIVERSITY LAB | Graduate Researcher

Jan 2015 - Jun 2015 | City, State

- Designed and benchmarked simulations–using COMSOL Multiphysics–of two concentric microcapillaries ejecting immiscible fluids
- Observed the behavior of jet droplet breakup through varying: geometries, Weber numbers, and Capillary numbers