

Education

Georgia Institute of Technology *August 2015 - December 2018*

Atlanta, USA

Candidate for Bachelors in Mechanical Engineering; BS/MS Program in Mechanical Engineering

Classification: **Senior**

Cumulative GPA: 4.0/4.0

Experience & Projects

Solar Fuels & Technologies Laboratory *August 2017 - May 2018*

Atlanta, USA

Undergraduate Researcher, "Experimentation & Data Analysis of Solar Thermochemical Inclined Flow Reactor"

- Investigated granular flow of perovskite oxides down rough inclined surfaces using Particle Image Velocimetry
- Analyzed the flow, temperatures and reduction of CAM-28 particles in an inclined flow solar reactor

Waste Ventures - Streamlining Waste Disposal Techniques *August 2017 - December 2017*

Atlanta, USA

- Developed more efficient and cost-effective ways to recycle or repurpose wastes containing metallized films
- Streamlined and boosted efficiency of compacting plastic bottles into bales for easier transportation and recycling

Partners for Care - Combating Parasitic Infection in Marsabit, Kenya *August 2016 - December 2016*

Atlanta, USA

Engineering & Design Lead

- Designed and developed manufacturing processes for low-cost footwear for tribal groups to combat chigoe flea infestation and related health problems.
- Implemented Design Thinking to refine product based on user testing and feedback from tribal groups in Marsabit

Tata Motors Limited *May 2016 - June 2016*

India

Engineering Intern, Department of Vehicular Frame Manufacturing

- Performed quality control for Long Member and Frame manufacturing of transport and military-grade vehicles.
- Analyzed defects arising from metal forming, notching and piercing processes in long members
- Implemented solutions to minimize defects and boost efficiency, using Six Sigma and Lean Manufacturing principles

National University of Singapore, Department of Bioengineering *May 2013 - August 2014*

Singapore

Researcher, "Methanogenic Community Shifts in Chicken Manure Fermentation"

- Proposed substrate modification for a 260% increase in methane production in traditional palm oil mill effluent biodigestors.
- Performed DNA isolation and analyzed changes in microbial population using Quantitative Polymerase Chain Reaction (qPCR).
- Published in the NUS Science Research Journal. Received a merit award at the Victoria Science Symposium.

Leadership & Activities

Council of Grad Life *December 2017 - Present*

Atlanta, USA

Undergraduate Chair

- Enhanced the Graduate Student experience by restructuring programming, branding and leadership development

Diversity & Inclusion Fellowship *January 2018 - Present*

Atlanta, USA

- Instituted changes to improve accessibility to events for students with physical, intellectual or financial limitations

Mental Health Student Coalition *May 2017 - December 2017*

Atlanta, USA

Executive Board, Committee Chair, Reaching the Unreached

- Spearheaded an ambassadors program to tackle mental health challenges in minority student communities

Student Center Programs Council *January 2016 - December 2017*

Atlanta, USA

Committee Chair, Wellness and Transferable Skills

- Formulated strategies and programs to enhance wellness, inclusivity, professional and technical development of members.
- Organized and executed large-scale events, for more than 4000 students.

Student Government Association *August 2015 - May 2017*

Atlanta, USA

Communications Board Member & Committee Chair, Graphic Design and Marketing

- Oversaw a Design and Marketing team, and coordinated with Student Government committees for marketing and publicity.
- Pioneered the restructuring of branding for the Student Government Association

Skills

Software: Solidworks, CES EduPack - Granta Design, Adobe Creative Design Suite, Microsoft Excel

Programming: MATLAB, Simulink, NI Labview, Java, C++, HTML, CSS, Javascript

Engineering: Six Sigma, Lean Manufacturing, Particle Image Velocimetry & Image Processing, Computer Aided Design, Design Thinking, Machining & Wood Working, 3D Printing, Laser Cutting, Water Jet

Communication: English, Hindi, German

Special Skills: Graphic Design & Illustration, QPR Training for Suicide Prevention, Safe Space Training, CPR Training