

Varisa Gumpangkum

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Education

- **Georgia Institute of Technology – Atlanta, GA – August 2018 – Dec 2022**
 - Candidate for Bachelor of Science in Mechanical Engineering
 - GPA: 4.0/4.0
- **Georgia Tech Lorraine – Metz, France – September 2020 – November 2020**
 - Mechanical Engineering Study Abroad and Research
- **Nanyang Technological University – Singapore – August 2019 – December 2019**
 - Mechanical Engineering Exchange Program

Skills

- MATLAB •SOLIDWORKS • Microsoft Office •Peer Tutoring • French (Intermediate)
- MyRio •LabView •Machining/Manufacturing (3D Printing, Laser Cutting, Lathing)
- Revit •Bluebeam •Autodesk BIM 360 •Trane Trace

Professional Employment

- **Georgia Tech Nanoscale Thermal Radiation Laboratory – Atlanta, GA – May 2021 – Present**
 - Undergraduate student assistant for Dr. Zhuomin Zhang
 - Review textbook materials and research papers and presentations of PhD candidates
- **Newcomb & Boyd Engineering Consulting Internship – Atlanta, GA – January 2021 – Present**
 - Design HVAC systems for hospitals and medical office buildings using Revit and Bluebeam
 - Manage contract administration for construction phase of projects (RFIs, Submittals)
 - Calculate loads and static pressure drop for ductwork systems
- **Peer Led Undergraduate Study Leader – Atlanta, GA – January 2019 – April 2019**
 - Created session plans and lead study sessions for CHEM 1310 at Georgia Tech
 - Coordinated tutoring sessions with students, professor, and PLUS mentor
 - Level II Advanced Certified Tutor certification from the College Reading & Learning Association
- **Altamonte Springs Science Incubator Internship – Altamonte Springs, FL - June 2017 – July 2017**
 - Mapped 100+ ARC GIS record drawings, tested city water, created fertilizer info pamphlet
 - Shadowed city engineers to sewage pump stations, stormwater drainage, and construction sites
 - Redesigned and created AS2I worksheet modules for new environmental science course

Extra Curriculars and Other Experiences

- **Mechanics of Materials Research – Metz, France – September 2020 – December 2020**
 - Research collaboration between labs in Germany, France, and the United States
 - Ran simulations to help predict microstructures during additive manufacturing processes
 - Converted data from binary to ASCII
- **ME 2110 – Final Design Project – Atlanta, GA – January 2020 – April 2020**
 - Built autonomous robot to complete various tasks for a class competition such as:
 - Delivering toys into a moving platform using a switch sensor, a solenoid, and gravity
 - Lifting a toy 50 inches above ground using a scissor lift powered by a motor
 - Moving a toy out of a designated zone using spring power and a solenoid
- **T-Mobile Hackathon: Machine Learning/Artificial Intelligence – Atlanta, GA – March 2019**
 - First place team - \$5000 and 5 iPhone XS
 - Team built a website to use ML and AI for organizing common problems T-Mobile employees would face during customer service calls and presented a functional demonstration

Honors/Awards

- Siemens National Merit Corporate Scholarship – 2018-2022