

Siddartha Thota

siddartha.thota@gmail.com; (678) 858-4190; <http://www.siddarthathota.com/portfolio/>

Mechanical Engineering student seeking internship for summer 2020 in an area that would provide experience or skills that would be valuable in my future career.

Education

Bachelor of Science in Mechanical Engineering

University of Georgia, May 2021 – GPA 2.96

Projects (pictures on website portfolio)

Flamethrower

- Designed, 3D modeled, and built a liquid fuel flamethrower with a 40ft range out of a decommissioned scuba tank, paintball and plumbing parts, and a nitrogen regulator
- Performed calculations and hydrostatic testing to ensure safe firing pressures of up to 510psi
- Experimented with fuel mixtures and additives for optimal burn performance

Blue Ketchup

- Steam distilled ketchup at a 1L scale to yield clear, concentrated ketchup extract
 - Used extract along with dye, corn syrup, and gelling agents to reconstruct ketchup
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Community Involvement

FIRST Robotics Mentor, Gwinnett County Public Schools

- Teach engineering design and SolidWorks to grades 9-12 in large and small groups
 - Oversee logistics of attending robotics competitions all across GA for up to 40 people
 - Regularly requires time commitments of >30hrs/week
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Work Experience

Mathematics Tutor, *English for Empowerment LLC. (Aug 2017-May 2018)*

- Taught mathematics to grades 3-6
- Prepared practice materials for students.
- Hosted weeklong summer camps for students

Student Assistant, *UGA Science Library Makerspace (Feb 2019-Present)*

- Oversaw operations of 3D printers, laser cutters, and virtual reality headsets.
 - Instructed patrons on correct operation of machinery.
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Certifications:

- SolidWorks – Certified Associate
- Ham Radio, Technician Class, Callsign: KN4ZXQ

Skills:

- **CAD:** SolidWorks, AutoCAD
- **Machine tool operation:** Lathe, Vertical Milling Machine, Laser Cutter
- **Welding:** MIG, AC/DC TIG
- **Programming:** Excel, MATLAB, Java
- 3 Years of Linux server hosting experience