

Michael Gustafson

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OBJECTIVE

- **To Seek an Engineering Internship/Co-op During Fall 2019**

EDUCATION

- **Georgia Institute of Technology**

Major: Chemical/Biomolecular Engineering

GPA: 4.00/3rd Year/Graduating Spring 2020

Completed Coursework: Kinetics, Separations, Transport I/II, Numerical Methods, Thermodynamics I/II, Synthesis Lab, Organic Chemistry I/II, Biochemistry I/II

WORK EXPERIENCE

- **Valero Energy Corporation | Process Engineering Intern | May 2018 – August 2018 | Memphis, TN**
 - Proposed test runs to lower vapor pressure in gasoline streams estimated to save \$2.2 million
 - Developed material balance of all saturated LPGs and debottlenecked naphtha production
 - Optimized the MSAT (Mobile Source Air Toxics) unit to minimize carcinogenic benzene in gasoline
 - Verified safe closing of tray manways to complete scheduled maintenance of the crude unit
- **Undergraduate Research | Dr. Filler Nanotechnology Lab | August 2017 – Present | Atlanta, GA**
 - Co-author of manuscript to be submitted to Applied Physics Letters by end of February 2019
 - Modeling nanowires geometry and material to optimize thermal conduction
 - Manuscript: Photonic Thermal Conduction by Plasmonic Resonators in Semiconductor Nanowires
Eric J. Tervo, Michael E. Gustafson, Zhuomin M. Zhang, Baratunde A. Cola, and Michael A. Filler
- **Private Tutor | March 2014 – Present | Atlanta, GA**
 - Tutored 500+ hours for ACT/SAT, chemistry, and physics for students in Atlanta Private Schools
- **Publix Deli Clerk | June 2017 – August 2017 | Canton, GA**
 - Sliced meat/cheese, made subs, worked fryers/ovens, maintained stellar cleanliness, ensured safety, ensured efficient assistance of customers among the subsections of the deli
 - Trained in customer service, Boar's Head Certified

HONORS & AWARDS

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| • Gordon A. Rich Memorial Scholarship
One of Seven Students Selected Annually | • Eagle Scout |
| • Terry College of Business Entrepreneurship Competition
Top 8 Finalist Nationwide | • Earned Every Boy Scout Merit Badge
8 th Person in GA Within Last Century |
| • Valedictorian
Class Rank 1/515 | • TEAMS Technology Competition
Team of 8 Qualified for Nationals |
| | • Gold Award National Spanish Exam
Placed in Top 5% |

EXTRACURRICULAR INVOLVEMENT

- **Tau Beta Pi (Engineering Honors Society)** Inducted as a 1st-year
- **Theta Xi Fraternity** Worked as Assistant Treasurer to organize \$32,000 budget
- **Student Notetaker** Hired by the Office of Disability Services to take notes for students with disabilities
- **ChBE Peer Mentoring** Provided guidance to three assigned 1st-year chemical engineering students
- **Residence Hall Finance Coordinator** Elected executive board member responsible for reimbursing up to \$7000 worth of funds
- **Volunteering** 300+ hours of community service

SKILLS

- ASPEN Plus, P&IDs, Petro-Sim, IR & UV/Vis Spectroscopy, Gas Chromatography
MATLAB, Python, Spanish