

Resume

Luke Thomas May

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Education

AUBURN UNIVERSITY

B.S. Chemical Engineering, Biochemical Specialization, Senior. Honors College.

Scholarships: Full Tuition Spirit of Auburn Presidential Scholarship, Department of Chemical Engineering Scholarship, Adams, Studdard, and Thompson Endowed Scholarship, Gary and Carol Godfrey Endowed Scholarship, Richard Eden Memorial Endowed Scholarship

Auburn, AL

May 2024

Experience

LONZA

Process Engineering Intern

Tampa, FL

May 2023 – August 2023

AUBURN UNIVERSITY

Undergraduate Student Researcher

Auburn, AL

January 2022 – Current

- Earned independent project in the design and use of observational models for the study of nondigestible fiber in the treatment of chronic kidney disease
- Utilized AutoCAD to design and 3D print complex molds for polydimethylsiloxane (PDMS) casting
- Conducted simulated in-vitro digestive models, freeze drying, and Nano-CT microscopy imaging
- Taught 3 other undergraduates laboratory and research techniques
- Awarded the Center for Polymers and Advanced Composite Research Fellowship
- Developed a model that is currently in the patent process

Undergraduate Research Assistant

August 2021 – January 2022

- Constructed cellulose microgels for uremic toxin absorption
- Analyzed the effect of different environments on microgel behavior
- Optimized the gelation and formation of spherical microgels in a digestive environment

LENDERWORKS MORTGAGE

Government Loan Insurer

Birmingham, AL

April 2020 – August 2020

May 2021 – August 2021

- Assessed, built, and audited government loan packages
- Led and trained 5 new interns
- Spearheaded the closing of a 4-month loan deficit
- Worked frequent overtime
- Attained bonus for record efficiency

Activities and Leadership

AUBURN UNIVERSITY MARCHING BAND

R.A.T. Parent Mentor

Auburn, AL

August 2020 – Current

- Mentored two freshmen through their adjustment to university and the band program
- Skilled in working in a team, accountability, and execution under pressure

CPAC UNDERGRADUATE RESEARCH FELLOWSHIP

April 2023 – Current

PHI LAMBDA UPSILON HONOR SOCIETY

March 2023 – Current

BIOMEDICAL ENGINEERING SOCIETY

August 2020 – Current

AUSOME SCIENCE IN 60 SECONDS DEAN'S OFFICE WINNER

April 2023

Skills

MATLAB | AutoCAD | ImageJ | 3D Printing | Laboratory Methods | Microscopy | Research Techniques | Technical Writing