

COLE GIUSTO

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FOCUS

I am a fourth year B.S./M.S. student in Mechanical Engineering seeking an internship in the summer of 2025. I am passionate about Dynamics and Control, but am also interested in Fluid Mechanics, Machine Learning, Mechatronics, and Design.

EDUCATION

University of California at Santa Barbara
B.S./M.S. in Mechanical Engineering
Upper-division GPA: 3.86

2021-Present

EXPERIENCE

Biological Control Lab

Undergraduate Researcher

September 2024 - Present

UC Santa Barbara

- Systems biology approach to gene expression
- Focus on DNA supercoiling dynamics
- Modelling complex nonlinear ODEs
- Application of both data-driven and classical controls methods
- Work and collaborate with large team of researchers

Multiphase and Multiscale Flow Lab

Undergraduate Researcher

September 2023 - June 2024

UC Santa Barbara

- Research focused on the pinch-off behavior of viscoelastic fiber suspensions
- Created experimental setups to characterize fluid behavior
- Image processing and analysis in Fiji ImageJ and Python
- Mathematical modelling of system

Office Depot

Sales Associate

June 2021 - September 2023

Los Gatos, CA

- Provided customer service, answering questions and making recommendations
- Supplied technical support
- Managed logistics and inventory
- Perfect attendance

STRENGTHS

Areas

Dynamics, Controls, Machine Learning, Mechatronics

Tools

SolidWorks, Simulink, LabVIEW

Programming Languages

Python, MATLAB, C#, C++, Rust

Honors and Awards

Deans Honors for Engineering, National Merit Scholar