

# COLE GIUSTO

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## FOCUS

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I'm a fourth year B.S./M.S. student in Mechanical Engineering looking for an internship in the summer of 2025. I'm passionate about Dynamics and Control, but am also interested in fluid mechanics, machine learning, mechatronics, and design.

## EDUCATION

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

*2021-Present*

## EXPERIENCE

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**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 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*

- Assisted customers in finding what the needed, making desisions, and making decisions.
- Managed logistics and inventory
- Cooperated with sales team
- Perfect attendance

## STRENGTHS

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**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