

# Cherié Francis

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## SUMMARY

Recent Mechanical Engineering graduate with a strong foundation in engineering principles, a passion for innovative designs and a proven track record of effective project management within cross-functional teams. Seeking opportunities to apply my skills and drive innovation.

## EDUCATION

**Bachelor's Degree in Mechanical Engineering** **Sep 2019 - Jun 2023**  
*Stanford University (Top 10 Engineering university in the world)*

## PROJECTS

### Viscoject 300 (in partnership with Gilead Sciences)

- Collaborated within a 4-person team to design and develop an add-on device for 3mL syringes to allow for clinicians to inject highly viscous medication in under 15s.
- Managed project timelines and milestones using a Gantt chart, ensuring successful on-time project completion.

### Aesthetic Prosthetic Leg Cover

- Co-developed a durable prosthetic leg cover that showcases the user's creativity through vinyl stickers.
- Provided a budget-friendly solution over 95% cheaper than comparable commercial alternatives.

## PROFESSIONAL EXPERIENCE

**Development Programme Manager Intern** **Jun 2022 – Aug 2022**  
*Mattel Inc.* *El Segundo, CA*

- Led a team to design and develop a robot arm tailored for automating a manual assembly process.
- Allowed for substantial cost savings in manufacturing due to the automated product assembly.
- Automated the tracking of issue submission dates for internal issue escalation procedures in Microsoft Excel.
- Optimised an existing issue categorisation system, making it more dynamic for informed decision-making.
- Improved upon and accelerated a design approval process using Adobe Workfront.
- Collaborated within a 7-person cross functional team to design an innovative product based on a provided prompt in 2 days.

**Math Grader** **Oct 2021 – Mar 2022**  
*Stanford University Department of Mathematics* *Stanford, CA*

- Developed comprehensive grading rubrics for undergraduate calculus courses that aligned with assigned solutions.
- Assessed and graded over 200 problem sets within 8 hours on a weekly basis.

**Residential Assistant** **Sep 2021 – Jun 2023**  
*Stanford University Residential Education* *Stanford, CA*

- Coordinated and executed programs and activities catering to over 200 residents alongside 9-12 colleagues.
- Fostered a sense of community within the residence while actively addressing student concerns and complaints.

**Undergraduate Research Assistant** **Jun 2021 – Aug 2021**  
*Stanford SHAPE Lab* *Stanford, CA*

- Engineered a 3D printed steering wheel which provides haptic feedback to users.
- Programmed the wheel to precisely adjust to user-specified angles using Arduino.

**Assistant Designer** **Jan 2021 – Jun 2021**  
*Skyview Estate* *St. Elizabeth, JA*

- Designed and modified exterior housing features and access points for a residential housing scheme using Procreate.

## Administrative & Marketing Coordinator

Mar 2020 – Aug 2020

*BEAM Stanford Career Education*

*Stanford, CA*

- Evaluated the credibility of potential employers on Handshake to guarantee their suitability for potential employees.
- Conducted research on and reviewed around 100 employers on average weekly.

## SKILLS

<b>Design:</b>	3D CAD (Fusion 360), CAM-Computer Aided Manufacturing, Sketchup, Figma, Procreate
<b>Manufacturing:</b>	CNC Milling, Milling, Turning (Lathe), 3D Printing, Laser Cutting, Sandcasting
<b>Programming:</b>	Python, C++, MATLAB, HTML, CSS
<b>Simulation &amp; Analysis:</b>	ANSYS Discovery
<b>Other:</b>	Project Management, Adobe Workfront, Microsoft Office, Google Workspace