

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

Design:	3D CAD (Fusion 360), CAM-Computer Aided Manufacturing, Sketchup, Figma, Procreate
Manufacturing:	CNC Milling, Milling, Turning (Lathe), 3D Printing, Laser Cutting, Sandcasting
Programming:	Python, C++, MATLAB, HTML, CSS
Simulation & Analysis:	ANSYS Discovery
Other:	Project/Programme Management, Adobe Workfront, Microsoft Office (Word, Excel, Outlook, PowerPoint, SharePoint), Google Workspace (Docs, Sheets, Forms, Slides, Gmail)