Cherié Francis

SUMMARY

Recent Mechanical Engineering graduate with a strong foundation in engineering principles and a passion for designing and developing innovative solutions.

PROFILE

Location
London, UK

Phone
07930 688 016

E-mail
cheriefrancis@alumni.stanford.edu

LinkedIn
https://www.linkedin.com/in/cherie-francis-25aa7b19a/

Portfolio
https://cheriefrancis.github.io/

SKILLS

- 3D CAD (Fusion 360)
- CAM
- Laser Cutting
- CNC Milling
- Milling
- Turning (Lathe)
- Sand Casting
- Prototyping
- Python
- C++
- HTML
- CSS
- MATLAB
- SQL
- Arduino
- ANSYS Discovery
- Microsoft Office
- Google Workspace
- Programme Management
- Adobe Illustrator
- Adobe Workfront
- Wireframing
- SketchUp
- Procreate
- Figma

EDUCATION

Stanford University, Stanford, CA || SEPTEMBER 2019-JUNE 2023
B.S. in Mechanical Engineering - Concentration: Product Realisation

Selected Coursework

ME102: Foundations of Product Realisation, ME103: Product Realisation: Design and Making, ME123: Computational Engineering, ME127: Design for Additive Manufacturing, ME128: Computer-Aided Product Realisation, ME129: Manufacturing Processes and Design, ENGR110: Perspectives in Assistive Technology, CS106A: Programming Methodology (Python), CS106B: Programming Abstractions (C++)

Projects

Shuriken Drip: ME128 final project
Conceptualised and created a shuriken-inspired spinning jewellery holder using CAD then developed a comprehensive CAM strategy to craft the primary components on the CNC. Also manually machined two intricate components on the lathe to integrate the CNC-machined parts.

Viscoject 300: ME170 capstone project in partnership with Gilead Sciences
Developed an add-on device for standard 3mL syringes that allows for clinicians to inject highly viscous medications in less than 15s.

Anagrams: CS106B final project
Employed C++ to create a 6-character sequence, including 2 vowels and 4 consonants, followed by recursively generating all words with 3 or more letters that can be constructed from this provided sequence.

EMPLOYMENT HISTORY

Development Program Manager Intern, *Mattel Inc.,* El Segundo, CA
JUNE 2022 - AUGUST 2022

- Spearheaded a collaborative team effort to design and develop a robotic arm tailored for automating a manual assembly process, allowing for substantial cost savings in manufacturing.
- Employed Adobe Workfront's functionalities to revamp and optimise a design approval process within the company.
- Improved upon an internal issue escalation process using Microsoft Excel
- Collaborated within a cross-functional team to develop a new, innovative product based on a provided prompt over a 2-day period

Undergraduate Research Assistant, *Stanford SHAPE Lab,* Stanford, CA
JUNE 2021 - AUGUST 2021

- Utilised Autodesk Fusion360 to design a 3D printed steering wheel which provides haptic feedback to the user.
- Programmed the wheel to precisely adjust to user-specified angles using Arduino.

Assistant Designer, *Skyview Estate*, St. Elizabeth, Jamaica
JANUARY 2021 - JUNE 2021

- Designed exterior aspects and access points for a residential housing scheme using Procreate.
- Engaged in proactive planning, coordination, and collaboration through scheduled meetings with team members, ensuring all members had a complete understanding of the design requirements.

Administrative & Marketing Coordinator, *BEAM Stanford Career Education,* Stanford, CA
MARCH 2020 - AUGUST 2020

- Reviewed and approved potential employers by evaluating their credibility and professionalism to guarantee their suitability for potential employees.