ALEXIS WEI

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EDUCATION:
UC Berkeley | May 2022
Mechanical Engineering & EECS

COURSEWORK:
ME 136 - Control of UAVs
ME 132 - Dynamic Systems & Feedback
E 26 - 3D Modelling
E 27 - Manufacturing & Tolerancing
ME 104 - Mechanics II
ME 100 - Electrionics for IoT
ME 40 - Thermodynamics
ME C178 - Design for the Human Body
Stanford Machine Learning
Berkeley Self-Driving

LANGUAGES:
C/C++/Java, Python, MATLAB
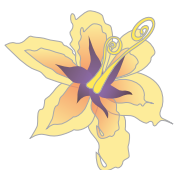Swift, JavaScript, CSS /HTML

TECHNOLOGIES:
Solidworks / Fusion 360
SimScale/ 3D Printing
React.js / Gatsby
Adobe Design Suite / Figma

JUST FOR FUN
Fellow @ Rewriting the Code
Entrepeurship Fellow @ Soma Capital
Graphic Designer @ Innovative Design
Samsung UVenture Top 10 Finalist

INTERESTS:
Robotics, Product Design,
Graphic Design, Architecture
Swimming, Baking Cookies!

EXPERIENCES

CHASSIS ENGINEER : Berkeley Formula Electric | since Jan 2020
- Analyzed thermal properties and mass flow rates to designed a cooling system to protect battery modules from overheating within the accumulator
- Researched and modelled a steering wheel design in Fusion 360, while optimizing weight, durability, driver controls and ergonomics
- Built an adjustable rig from 80/20 for seat testing and spaceframe constraints

PRODUCT DESIGN INTERN : Fingerprint for Success | since July 2020
- Designing a two-way marketplace experience & admin console in Figma that is user friendly, expandable and customizable to meet the need of various personas
- Determined when users wanted to transition services through testing AI botpress chatbot, and collecting direct feedback through one-on-one interviews
- Researched and contacted marketplace partners for F4S API integration

DESIGNER + FRONTEND ENGINEER : Pomp Beauty | since May 2020
- Increased the likelihood of service sign ups by 5x through redesigning the customer registration, checkout and website home page in Adobe XD with HCI principles
- Implementing my frontend designs with React.js and Redux at pompbeauty.com
- Designed 50+ visual and video content for social media and weekly newsletters

MECHANICAL ENGINEERING INTERN : Arris Composites | May 2019 - Apr 2020
- Prototyped and 3D printed multiple designs of a modular dispenser for handling fragile material of various carbon fibre compositions
- Designed various mechanical components in Solidworks within manufacturing cells which had functions of heat protection, ventilation, and stabilization
- Programmed a movement seqenuce for FANUC Robotic arms in KAREL used for critical MVP demonstrations and speeding up R&D testing
- Conducted cell testing to ensure perfect program integration into the system, interface, and PLC, increasing system performance by 200%

PROJECTS

REWRITING THE CODE - ONBOARDING INFRASTRUCTURE | Summer 2020
- Reconstructed RTC's onboarding process for new members allowing members to track their personal progress for the first time through lesson modules
- Designed the data infrastructure through AirTable bases to collect these data
- Tested Airtable REST APIs and connected with frontend development

CULINARY SOCIAL MEDIA PLATFORM - OM NOM | Hack:now - Ongoing
- Created a platform for sharing and discovering recipes, chefs and resturants
- Uses CoreML and Swift to identify available ingrdients through mobile cameras
- Web platform developed with React.js, Material UI, and MongoDB Atlas

CONTROLLABLE COLOR CHANGING LIGHT SYSTEM | Late 2019
- Designed a wireless light fixture that can communicate over Wi-Fi through creating a control system with an ESP32 as well as light, temperature and humidity sensors
- Programmed in Python w/ Adafruit packages