

Allison Chang

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OBJECTIVE

Howdy! I'm an aspiring engineer who likes researching and designing products that are easy to use, accessible, and can help others. I am actively seeking a full-time role in human factors engineering, UX R&D, or product engineering starting Fall of 2022.

EDUCATION

- M.S. in Industrial and Systems Engineering**, Texas A&M University; College Station, TX *August 2020 – May 2022*
Emphasis: Human Factors Engineering, Healthcare and Human Systems | **GPA: 3.86**
- B.S. in Electrical Engineering**, Texas A&M University; College Station, TX *August 2016 – May 2020*
Minor in Mathematics | **GPA: 3.5**

WORK EXPERIENCE

- Graduate Research Assistant**, ACE Lab TAMU, College Station, TX *July 2021 - Present*
- Currently creating a safety dashboard for offshore oil rig supervisors based on current practices of safety management and fatigue to monitor and track safety performance, fatigue, sleep quality, and alertness of teams through physiological sensor data, safety culture surveys, and a Psychomotor Vigilance Test
 - Analyzed over 20 user research interviews to gather functional information requirements for design and conducted qualitative data analysis and thematic coding using **MaxQDA**
- UI/UX Designer & Researcher**, ACE Lab TAMU, College Station, TX *April 2020 - Present*
- Ideated and created an interactive Hi-Fidelity iPhone and Apple Watch prototype of a non-invasive student mental health application to track stress and anxiety through heart rate and stress self-reports
 - Created Usability Testing Protocol for iPhone and Apple Watch **Figma** prototypes using Nielsen's Heuristic Evaluation, Perceived Usefulness and Ease of Use Scale, and the System Usability Scale (SUS)
 - Maintains lab social media and public relations on LinkedIn and Twitter by making daily posts with corresponding visual graphics boosting user engagement over 400%
- Product Manager, UI/UX Designer**, Develop for Good/Easterseals, Stanford, CA (Remote) *Sep 2020 - Present*
- Co-leading a team of 6 designers, frontend developers, and backend developers to build a mobile app platform to assist with veteran job preparation for Easterseals. Responsibilities include but aren't limited to scheduling team & client meetings, setting project impact & success metrics, and creating milestones & timelines for the project
 - Designed Hybrid Android/iOS application using **Figma** to provide e-learning for job hunting skills, disability services, and additional support for areas serving veterans and military families, seniors, and caregivers
- Plant Engineering Intern**, United Parcel Service (UPS), Atlanta GA *May 2019 – August 2019*
- Assisted with a user-friendly design of Human Machine Interface Screens and Symbols using Indusoft Web Studio and VBScript incorporated in UPS warehouses across the US

PROJECTS

- Lean Engineering Work-Study (Unpaid)**, Rochester Gauges, LLC, Dallas, TX (Remote) *June 2021 – August 2021*
- Utilized Lean 5S methodology to implement an anthropometrically friendly micro-level workstation redesign to reduce bottleneck in production within a work cell which oversees the production of various gauges
- Cognitive and Hierarchal Task Analysis of Netflix Long-Tail Selection Algorithm** *Jan 2021 – May 2021*
- Performed Cognitive Task Analysis of user's ability to successfully navigate content to view on the Netflix user interface to test how well the Netflix algorithm can guide the user through both general and targeted content searches
- Human Information Processing Analysis of Breville Barista Express** *August 2020 – Dec 2020*
- Inspected the Breville Barista Express and utilized concepts of signal detection theory and visual information processing to determine if the machine allows the user to effectively differentiate between good & bad espresso
- Wearable Activity Monitor – Capstone Senior Design** *August 2019 – May 2020*
- Developed and designed an android mobile application in **Java** for Wearable Activity Monitor to display temperature data, heart rate data, and activity labels via Bluetooth from the Polar M600 Watch and an additional PCB sensor

SKILLS

Interpersonal – Dependability, Teamwork, Responsibility, Leadership, Empathy, Communication

Technical – Visio, A10 WIN, MaxQDA, Microsoft Suite, PowerPoint, Google Drive, Social Media, Adobe Suite

UI/UX – Affinity Mapping, Wireframing, Prototyping, Figma & Sketch, User Testing, Interview/Focus Group Facilitation

Programming – R/RStudio, MATLAB, Java, C/C++, Assembly ARM v8, VBScript