

Kevin Wang

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EDUCATION

University of Michigan

Computer Engineering; Bachelor of Science in Engineering, College of Engineering
GPA: 3.646/4.000, Dean's List

Ann Arbor, MI
May 2022

SKILLS

Technical Skills: C++, C, Java, Python, HTML/CSS, VBA, Qt, SolidWorks, MATLAB, Altium, CST, Verilog HDL, Microsoft Office, Windows, Mac.

Relevant Coursework: Data Structures & Algorithms, Computer Organization, Computer Vision, Web Systems, Embedded System Design, Logic Design, Compilers, Electronic Circuits, Signals & Systems, Discrete Mathematics, Calculus 3, Differential Equations, Linear Algebra

PROFESSIONAL EXPERIENCE

Amazon

Software Development Engineer Intern

Palo Alto, CA
May 2021 - August 2021

- Current Software Development Engineer Intern on the Search Engine Technologies team in Palo Alto.

SpaceX

Software and EMI Avionics Intern

Greater Los Angeles, CA
January 2021 - April 2021

- Designed, implemented, and tested the full end-to-end production EMC process for in-house pre-compliance testing. Upgraded hardware and software processes for automation of data collection and analysis for all Starlink Product EMC testing.
- Created a software system focused primarily on consumer pre-compliance testing analogous to the F9/Dragon/Starship EMC qualification workflow. Developed primarily in Python.

Gentex Corporation

Software Intern, Electromagnetic Compatibility Intern

Zeeland, MI
May 2019 - August 2019; May 2020 - August 2020

- Designed and developed a software system consisting of a C++ backend and Qt frontend for automation of EMC test procedures. Devised a log(n) complexity algorithm to efficiently reach maximum boundaries on tests without straying beyond set error thresholds.
- Simulated electromagnetic performance of 150+ designs, concentrating on farfields and S-Parameters, to provide recommendations on how to best incorporate new technologies into existing designs.

University of Michigan Housing

Resident Advisor

Ann Arbor, MI
August 2019 - Present

- Provide personal and academic counseling to 70 community members in the Residence Halls through career advice and resolutions for personal conflicts, enhancing the first-year experience for incoming students.
- Analyze resident concerns of 570+ students, collaborate with professional staff, and advise/consult with student councils, leading to a 40% increase in council membership.

PROJECT EXPERIENCE

SpotifyMixer Web Application

Software Developer

Ann Arbor, MI

- Utilized GatsbyJS, HTML5, CSS, and Firebase to create a web app that automatically generates personalized playlists for you and your friends full of everyone's favorite songs using data from Spotify Web API. Deployed site found at: spotifymixer.com

Personal Website

Software Developer

Ann Arbor, MI

- Designed and created a personal webpage using HTML/CSS/React technologies.

Miniature Tether Electrodynamics Experiment (MiTEE) Research

Research Assistant

Ann Arbor, MI

- Conduct research into novel propulsion technology using propellant-less propulsion through electrodynamic tethers for nano-spacecraft.
- Create PCBs using Altium for solar interconnect and antenna matching boards as part of the Electrical Power Systems Research Team.

Aegis Systems Startup

CEO and Co-Founder

Lisbon, Portugal

- Managed a team of five co-founders during a four-week accelerator to build Aegis Systems, an IOT Wearable Tech Start-up.
- Led a technical team to develop an array of sensors to detect five vital signs and analyze this information to accurately determine the health status of the user and alert a central hub of any signs of danger.

Grand Valley State University SolaRescue Project Team

Development Team Leader

Grand Rapids, MI

- Developed a solar-powered surgery system through CAD design work, circuitry design, and solar panel, and charge controller sizing.
- Deployed at the Embangweni Mission Hospital in Malawi, the system has aided in childbirth, surgery, and basic infrastructure requirements, saving over a hundred lives since the summer of 2017.

ACTIVITIES

MPowered Entrepreneurship

President, Chief Operating Officer, Trailblaze Director, 1000 Pitches Logistics Lead

Ann Arbor, MI
September 2018 - Present

- Managed a team of 5 executive board members, 20+ core directors, and 80+ talent members with a \$100,000 budget; led teams from ideation through execution for 8+ events, marketing, and logistics.
- Strategized with directors on project vision, event logistics, and talent recruitment; oversaw day-to-day operations including sponsorship calls, teaching effective communication and leadership skills, and acting as a liaison with the Center for Entrepreneurship.

MEG Consulting

Senior Advisor, Vice President of Operations and Finance, Managing Director

Ann Arbor, MI
September 2018 - Present

- Budgeted \$8000+, organized projects, led marketing and budgeting committees, and planned logistics as VP of Operations and Finance.
- Conducted a gap analysis of the technical and non-technical challenges to identify overarching issues in the CAV space to determine research priorities for MCity, the nation's largest autonomous vehicle testing facility, in order to allocate a budget of \$11 million.