

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

April 2022

Forest Hills Central High School

Diploma; GPA: 4.504/4.000

Grand Rapids, MI

May 2018

SKILLS

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

Relevant Coursework: Data Structures and Algorithms, Computers & Programming, Computer Organization, Logic Design, Electronic Circuits, Multidisciplinary Engineering Project, Engineering Design, Discrete Mathematics, Physics 1&2, Calculus 3, Differential Equations.

Current Coursework: Web Systems, Artificial Intelligence, Operating Systems, Embedded System Design, Signals & Systems, UI Development

PROFESSIONAL EXPERIENCE

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. Delivered a fully-packaged and working end product as well as thorough upkeep and update documentation.
- Devised a log(n) complexity algorithm to efficiently reach maximum boundaries on tests without straying beyond set error thresholds.
- Worked with senior software engineers to create design specifications, understand testing procedures, and conduct design reviews.
- 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.
- Wrote and debugged excel macros to convert network analyzer output for cables into consistent formatting to ease future cable testing.
- Drafted new standards for testing processes in order to streamline testing, manufacturing, and design processes.

University of Michigan Housing

Resident Advisor

Ann Arbor, MI

August 2019 - Present

- Provide personal and academic counseling to 49 community members in the Baits II Residence Hall through career advice and resolutions for personal conflicts, enhancing the first-year experience for incoming students.
- Analyze resident concerns of approximately 570+ students, collaborate with professional staff, and advise and consult with student councils, leading to a 40% increase in council membership.

PROJECT EXPERIENCE

Miniature Tether Electrodynamics Experiment (MiTEE) Research

Research Assistant

Ann Arbor, MI

November 2018 - Present

- 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

June 2019 - August 2019

- 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.
- Created prototypes, developed marketing and financial plans, and pitched to over ten investors from across the globe.

Grand Valley State University SolaRescue Project Team

Development Team Leader

Grand Rapids, MI

June 2017 - July 2018

- 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

Chief Operating Officer, Trailblaze Director, 1000 Pitches Logistics Lead

Ann Arbor, MI

September 2018 - Present

- Managed five event teams consisting of 11 directors and over 80 talent members with a \$40,000 budget; led them from ideation through execution over the span of 6 months.
- Strategized with directors on project vision, event logistics, and talent recruitment; oversaw day-to-day operations including sponsorship calls and teaching effective communication and leadership skills.
- Led a team of five members on a low-income, first-generation college and entrepreneurship readiness program (TrailBlaze) that reached 160+ students from five different middle schools and raised over \$2000 in funding from 6+ sponsors.
- Led planning and logistics on pitch booths and student involvement by leading teams at sixteen pitch booths and dorm outreach programs, engaging with 15,000 students and receiving up to 8000 pitches in a total of ten categories.

MEG Consulting

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.
- Analyzed computer usage for CAEN, the University of Michigan's information technology services department, to provide recommendations on rebalancing student computer lab environments using CAEN's remodeling budget of \$2 million.
- Analyzed and modeled 187 collected data samples from labs across campus to compute an estimated computer use to user ratio that can be used to accurately model the fluctuation in lab use over periods of time.