Juliette G. Kim

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EDUCATION

University of Illinois at Urbana-Champaign *Spring 2025*
B.S. Civil and Environmental Engineering / Architectural Studies Minor / Business Minor *3.96/4.0*

Thomas Jefferson High School for Science and Technology *August 2018 – May 2022*
Relevant Coursework: Prototyping 1&2 | Engineering Design | Energy Systems 1&2 | Digital Electronics *4.41/4.0*

WORK EXPERIENCE

Seyler Designs Alexandria, VA
Carpenter / Administrative Assistant *June 2022– present*
- Utilized CAD programs to create over 20 detailed renderings for custom furniture and general carpentry pieces
- Developed cutlist optimization models in collaboration with suppliers to prevent unnecessary spending
- Established clear and precise goals by using interpersonal communication and listening skills to understand clients wants and needs

Riverbend County Club Great Falls, VA
Front Desk Receptionist *June 2022– August 2022*
- Established a positive, welcoming environment by building relationships with members and maintaining a workspace up to club standards

TJHSST Engineering Labs Alexandria, VA
Lab Assistant *June 2021– August 2021*
- Engineered a compartmentalized plywood organizational tray for the use of future students using Fusion360 and laser cutter
- Repaired five defective racing engines up to handbook standards
- Maintained machinery of bandsaws, laser cutters, and drill presses and organized all fasteners by type, size, and use to streamline efficiency

Tomorrow's Women in Science and Technology Alexandria, VA
Secretary / Techstravaganza Supervisor *September 2018– June 2022*
- Organized Techstravaganza (regional STEM fair) and increased attendance to over 5,000 visitors from 192 schools
- Secured sponsors and exhibitors like NASA, U.S. Department of Transportation and Girl Scouts
- Supported over 450 students from underprivileged schools by coordinating bussing and lunches

PROJECTS

Feasibility Study of Connecting Ikenberry Buildings Champaign-Urbana, IL
Researcher *August 2022– December 2022*
- Determined optimal connection methods between six dorms and their common building to improve safety and convenience for residents
- Collected cost data from over 20 connection projects, conducted surveys with over 200 resident responses, and recorded traffic data
- Awarded top three presentations out of the 200-person class

S.T.E.P.S. for Tiny Homes Alexandria, VA
Lead Research Engineer *August 2021– June 2022*
- Engineered a modular, customizable tiny home staircase using CAD/CAM programs on Fusion360, a CNC Router, and power/hand tools
- Provided users with efficient and flexible storage units while combating climate change and over-consumption

ACTIVITES

Engineers Without Borders Champaign-Urbana, IL
Malawi Team Member *August 2022 – present*
- Collaborated with a community in Chilaweni, Malawi to contextually engineer a vehicular bridge for their area
- Synthesized responses from 20 household surveys to determine needs and constraints of the project
- Coordinated with over 10 suppliers/construction firms and analyzed past project costs to develop itemized cost estimates in Excel

Society of Women Engineers Champaign-Urbana, IL
Community Service Fundraising Chair *August 2022 – present*
- Organized bimonthly events within a team of 18 to raise funds for Relay for Life, an organization dedicated to fighting cancer

Illinois Solar Decathlon Champaign-Urbana, IL
Concept Team *August 2022 – present*
- Analyzed energy conservation methods implemented in more than 20 projects across the world
- Designed a home in Revit that addresses the programmatic/spatial needs of residents with disabilities

EDifyTalks Remote
Writing Director *October 2020– March 2022*
- Delegated a team of 17 as a leader for a global non-profit that raises eating disorder awareness
- Researched and wrote pieces for our social media, magazine, and a program for U.S. schools that together reached 80,000 people globally

TECHNICAL SKILLS

- **Tools**: Power Tools, Lathe, CNC Machines, Laser Cutter, Waterjet, MIG Welder, 3D Printer
- **CAD**: Revit, Fusion360, SketchUp, Inventor, OnShape
- **Programming Languages**: Python, R, MATLAB, Java