

ARYA HARIA

+1 217-200-3150 | aryaharia05@gmail.com | [linkedin.com/aryaharia](https://www.linkedin.com/in/aryaharia) | aryaharia.com

Education

- University of Illinois at Urbana - Champaign, IL** Aug 2021 - Dec 2024
BSc. in Mechanical Engineering with a minor in Computer Science (GPA: 3.98 / 4.00)
• **Awards:** James Scholar, Dean's List, Re-imagine our Future - 1st Place, Illinois Design Challenge - 2nd Place
- Technical University of Munich, Germany** April 2024 - Aug 2024
Study Abroad program with a focus on robotics and additive manufacturing-related coursework

Technical Skills

SolidWorks, Fusion360, Creo, 3D Printing (SLA/FDM), Waterjet, CNC, Woodworking, MATLAB, C++, Python

Work Experience

- Tesla - Production Engineering Intern - Sustaining Engineering Team** Dec 2023 - April 2024
• Led a project to design and build a new station that is expected to reduce scrap worth \$200,000/year.
• Design and fabricate parts using various production methods to sustain and improve the production lines.
• Support multiple equipment installs in a fast-paced environment, collaborating with interdisciplinary teams.
- Kohler Co. - Product Engineer Co-op - Advanced Development Team** May 2023 - Dec 2023
• Support all the high-risk Research and Development Projects in the Kitchen and Bath Department.
• Fabricate the concepts in the Model Shop with a variety of manufacturing techniques and tools
• Brainstorm, Research, Design, and Prototype concepts for Testing and Executive Design Review.
- Siebel Center for Design - Lab Technician** Aug 2022 - May 2023
• Assist guests to use machines like Waterjets, CNC Machines, 3D Printers, Woodworking machines, etc
• Work on shop projects that include designing, prototyping, and manufacturing solutions to the given problem.
• Provide tool and safety training and maintain and troubleshoot all equipment.

Projects

- Sandia National Labs - Semi-Automated Vision Inspection System** | *Fusion 360, Raspberry Pi, 3D Printing, Project Management*
• Designed and fabricated an inspection system in a 6" cube capable of capturing images from 5 axes
• Automated the process to enhance speed and require minimum operator interaction
- Wall Climbing American Ninja Robot** | *Fusion 360, Creo, 3D Printing, Laser Cutters, MATLAB*
• Designed and fabricated a robot that moved vertically and horizontally between two parallel walls.
• Simulated the motion in MATLAB and conducted PVA and DFA Analysis on the robot.
- Designed A Glider** | *Fluid Mechanics, Prototyping, MATLAB, Laser cutters*
• Researched, designed, and built a glider with a specified glide ratio, to land on a 1m radius target
- NotSkyScanner - A flight search engine** | *Data Structures, C++, Python, GitHub, Data Mining and Sorting*
• Created a flight search portal using graphs and Dijkstra's algorithm.
• Performed cleaning and sorting tasks using Python to extract meaningful data to build the graph.
- Rube Goldberg Machine** | *Fusion 360, 3D Printing, Woodworking, Design of Experiments*
• Designed and built a Rube Goldberg machine with 10 steps, including an airborne step.
• Performed DOE on optimizing the machine and increasing its accuracy.

Leadership Experience

- Illini Formula Electric - Drivetrain Subteam Member** | *SolidWorks, FEA, 3D Printing, Machining, Hands-on shop work*
• Worked on the brake bias, planet pins, brake rotor, and working on FEA using SolidWorks.
• Working on the design and optimization of the upright using Altair Inspire to 3D print it using DMLS
- Engineering Council - EOH External Marketing Director** | *Communication, Task Management, Agile Working*
• External Marketing Director for the nation's largest student-run event (over 20k people attend it!)
• Oversee all marketing efforts for EOH including coordinating with news outlets, campuswide newsletters, etc.
- Adventure Lover** | *Backpacker, Traveller, Thrill Seeker*
• Gone on multiple backpacking trips, including one to a height of 12,250 ft in the Himalayas
• Skydived from 14,500 ft, Whitewater Rafted on class IV rapids