MDP | MDP Experience and Interest Form 2024

Complete one form for each project. Review the project descriptions to identify which desired qualifications apply to you. Save each file individually as LastName_FirstName_ProjectName.PDF and upload in the application where requested.

First and Last Name: **Sally Su**

Major/Intended Major: **Computer Science**

Expected Graduation Date (MM/YY): **December 2024**

Sponsor/Team Name: **CLUES**

Describe the experience and skills that make you a good candidate for this project. This can come from relevant course/project experience, employment, internships, volunteer work, or other areas. Read the additional desired skills section for this project online, and highlight what you have experience in.
Recommended word count: 100 – 300 words

I am a senior in Computer Science with experience in design and working on team-based projects involving the development of web applications. This past summer, as a part of EECS 495 (Software Development for Accessibility), I worked in a small team consisting of myself, two graduate students at UM and another undergraduate CS student to design and develop a monitoring system for businesses to reduce overcrowding during COVID. My role within the group was to design and build a web app with an intuitive UI for viewing occupancy data at places of interest. I am always motivated and eager to learn new technologies, so for this project, I learned to develop with Angular, which I had no previous experience using. The process of reading through the Angular docs to familiarize myself with the framework was exciting and it was always very rewarding to share my progress with the team. As a part of the project, I also designed a document structure using MongoDB to store all the data necessary for the system to function.

I have completed Data Structures and Algorithms (EECS 281, earned an A) and am currently in User Interface Development (EECS 493) and Web Systems (EECS 484). In addition to specific courses I have become proficient at writing JavaScript, HTML, and CSS from working on projects outside of class. I am detail oriented, have an eye for design, and care deeply about refining the aesthetics of products I work on. Besides my technical skills, I am very easy- going, thrive in collaborative environments, and love to make new connections.

Why are you interested in this project/field/industry?
Recommended word count: 50 – 200 words

I am very interested in working with a team on a project of this scale. I believe I can make a strong contribution while learning a lot from the project mentors and about the intricacies of working on a project that will go into production. As a student who experienced the online COVID instruction and the rise of asynchronous educational opportunities, I find this project very interesting and am excited about the opportunity to improve the educational experience for students who come after me.

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First and Last Name: **Molly Smith**

Major/Intended Major: **Mechanical Engineering MEng**

Expected Graduation Date (MM/YY): **December 2024**

Sponsor/Team Name: **U-M SPRL**

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Recommended word count: 100 – 300 words

With my background experience and skills, I could make a positive contribution to the U-M Space Physics Research Laboratory team. I hold a BS degree in Mechanical Engineering (2022, GPA 3.89) from the University of Illinois where I focused on mechatronic technologies. This coursework included both mechanical and electrical engineering courses including embedded systems design that I feel have prepared me well to contribute strongly to this team. From 2022 until August 2023 I worked for BAE Systems in an engineering team focused on sensor development and data collection. I believe this experience would be very applicable to the SPRL project. I am currently enrolled in EECS 452 (Digital signal processing). I feel that my combination of academic and industrial experience makes me a strong candidate for the team.

Why are you interested in this project/field/industry?
Recommended word count: 50 – 200 words

I am personally interested in the field of auroral and space plasma phenomena. I was on a trip to the Upper Peninsula where I was fortunate enough to have witnessed the aurora. I am also personally interested in space and would love to get more involved at the Peach Mountain Observatory. This project is a perfect intersection of my skills and my interests, and I hope you will consider me for a position on the team.

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First and Last Name: **Wally Wolverine**

Major/Intended Major: Computer Science/Data Science

Expected Graduation Date (MM/YY): **May 2027**

Sponsor/Team Name: **SOCR**

Describe the experience and skills that make you a good candidate for this project. This can come from relevant course/project experience, employment, internships, volunteer work, or other areas. Read the additional desired skills section for this project online, and highlight what you have experience in.
Recommended word count: 100 – 300 words

I would like to be considered for an Apprentice Researcher position within Professor Dinov's SOCR Big Data research team. I am a first year student intending to double major in Computer Science and Data Science. I received a grade of 5 on my CS AP and I have been programming for 5 years. I tested out of EECS 183 and am currently enrolled in EECS 280. I have experience programming in C++ and Python. I have also built a website for my community band using Wordpress. I enjoy teaching people about new technology, and I am always looking for ways to apply what I know to new challenges.

Why are you interested in this project/field/industry?
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I attended the open lab session on Friday and really enjoyed learning more about how the team functions. I especially found the structure of the team and subteams to be interesting. I am very interested in Big Data, and would like to learn more about how machine learning and artificial intelligence can help researchers draw better conclusions from complex health data.

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First and Last Name: **Yifan Wu**

Major/Intended Major: **Robotics MEng**

Expected Graduation Date (MM/YY): **May 2025**

Sponsor/Team Name: **MiTek**

Describe the experience and skills that make you a good candidate for this project. This can come from relevant course/project experience, employment, internships, volunteer work, or other areas. Read the additional desired skills section for this project online, and highlight what you have experience in.
Recommended word count: 100 – 300 words

Thank you for considering me for a position on the MiTek Machine Vision Tool for Connector Plate Inspection Team. I am a masters in Robotics student with an undergraduate degree in Mechanical Engineering. During my undergraduate degree, I participated in many design based courses. For my senior design capstone class, I designed and prototyped a device to move marbles from one location to another. I used AutoCAD to design the mechanism and did the wiring myself. The final project was able to pick up individual marbles and move them from one cup to another successfully. This project sparked my interest in Robotics and led me to apply to the University of Michigan grad program. I also have experience working on home construction as I did an internship with Builders R Us in 2019. I am currently taking EECS 504: Foundations of Computer Vision, and plan to take EECS 542: Advanced Topics in Computer vision, in Winter 2024. I feel that my skills would make me a strong asset to the team.

Why are you interested in this project/field/industry?
Recommended word count: 50 – 200 words

I am very interested in the field of computer vision, and I hope to work in it after I graduate. I am also interested in construction, having worked for a construction company the summer after my sophomore year in undergrad. With this experience, I have seen firsthand the impact that enhanced technology like computer vision could have on improving the efficiency of this traditionally manual industry. I am also very interested in working with MiTek to learn more about the breakthrough work they are doing in the construction industry.

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First and Last Name: **Eileen Engineer** Major/Intended Major: **Mechanical Engineering**

Expected Graduation Date (MM/YY): **May 2025** Sponsor/Team Name: **ASML**

Describe the experience and skills that make you a good candidate for this project. This can come from relevant course/project experience, employment, internships, volunteer work, or other areas. Read the additional desired skills section for this project online, and highlight what you have experience in.
Recommended word count: 100 – 300 words

Thank you for considering me for this interesting project "Simulating & Measuring the Motion of Dynamic Loops". I read on the project website that you are looking for experience in design for manufacturability. Last summer I worked at Widget Inc doing design for manufacturability in their new product design department. I went to the assembly plant to learn more about how their widgets are assembled, and used SolidWorks to redesign their Red Fox Widget so that it took 10% less time to assemble than it did previously. I also got a B+ in ME 360: Modeling, Analysis, and Control of Dynamic Systems where I developed transfer functions for a vacuum cleaner and modeled the behavior in MATLAB. I believe my experience both in the classroom and in my internship make me a strong candidate for your project.

Why are you interested in this project/field/industry?
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I am very interested in the hands on nature of this project. I really enjoy the idea of creating a simulation and being able to validate it with a real world model. I am very interested in working with cameras and sensors, and I am a high speed video enthusiast. I have a GoPro camera that I use to take slow motion video of myself doing snowboard tricks. I am intrigued by the opportunity to connect my personal and professional interests with this project.