Sushmit Dutta (He/Him)

SYSTEMS ENGINEER

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PROFILE

Pursuing a degree in Systems Engineering with a minor in Sustainability and Photography. Experience working at consulting firms, and start-ups from early to late stage. Seeking to work at the intersection of engineering disciplines to be able to find levers in the system alongside exceptional teammates. Passionate about talking to people to understand their needs, and values.

WORK EXPERIENCE

September 2021 - Current
Olin College of Engineering | MA
Office of Inclusion, Diversity, and Equity Lead

- Aided campaign and filed paperwork to have All-Gender Bathrooms access
- Designed a system to have a process flow for a name/pronoun change form
- Created a physical space on campus for identity groups to hold events

October 2021 - September 2022
ALP Technologies | MA
Systems Engineer / Scrum Leader

- Promoted after working for 4 months as a Mechanical Engineer and 5 months as a Software Engineer
- Piloted the lean methodology to turn company prototype into product through two week sprints
- Led conversations to scale manufacturing by co-designing with in-house engineers and factories
- Coordinated with accelerators for Seed A funding to build test facility and manufacture initial prototypes

June 2021 - August 2021
Accenture | NY
Consulting Intern

- Reported on Environmental, Social, and Governance (ESG) outlooks of banks in South East Asia
- Developed ESG comparison metric to rank companies in their respective fields
- Presented research at Strategic Point conference in Singapore to represent Accenture

January 2021 - May 2021
AI Robotics | Singapore
Machine Learning Intern

- Designed tests for deterministic algorithm used by on-board sensors
- Conducted failure-analysis on edge-cases for deployment in parking lots
- Led marketing campaign (website development, promotional video) to attract investors

EDUCATION

Systems Engineering (Bachelor of Science)
Olin College of Engineering | MA

GPA: 3.97

Relevant Coursework: Principle of Systems Engineering, User Experience Design, Mechanical Systems

PROJECTS

National Science Foundation Fellow
Making sense of the question "Why Sustainability?" through having conversations with people from different backgrounds

Batch-Reverse Osmosis Research
Prototyped and manufactured reverse osmosis system on MIT research team to compete in 'More Water' competition by NASA

Redox Battery Research
Researched with 2 PhD candidates on methods of extending the lifespan of redox lead-acid batteries used in developing countries

Smart Mirror
Designed and created smart mirror that can be controlled through voice modules and displays modules such as time, weather, calendar, and news using JavaScript, and Python

SKILLS

Critical: Ideation, Systems Thinking, Adaptable, Collaborator, Self-Starter

Software: Python, JavaScript, C++, HTML, Shell, React, Docker, MATLAB