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 in the energy sector. Passionate about talking to people to understand their needs, and values.

WORK EXPERIENCE

May 2023 - Current
Lunar Energy | CA
Systems Integration Engineering Intern

- Developed the State-of-Charge (SOC) algorithm in conjunction with the battery team using Round Trip Efficiency (RTE) testing
- Designed and conducted tests to achieve compliance standards, and release firmware candidates for alpha systems
- Supported solving mesh and start-up issues for units used for maximum power point tracking (MPPT)
- Created AWS Lambda functions to gather CAN logs from remote sites
- Generated JIRA workflow to streamline cross-team testing

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

- 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

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

PROJECTS

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

Rocketry Recovery Team Lead
Led a successful re-design and fabrication of the recovery system based on competition requirements on a team of four engineers

Service-Animal Trainers Research
Held the role of a Project Manager in a team of five where we created personas, and attribute spectrums through interviews

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, C++, Docker, AWS, CANape, Graphana