MOINAK DAS

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WORK EXPERIENCE

TC Electric New York, NY
Field Engineer Intern May 2023 – Present
- Developed a windows application to analyze a spreadsheet of equipment installations and provide a high-level overview of installation progress per train station/track/interlocking within a map-based user interface.
- Developed visual basic scripts to analyze cost spreadsheets and provide valuable metrics to gauge project progression
- Worked on a python tool to visualize submittal data and graph completion of late, on track, and early submittals
- Created a python script to automatically generate MTA Diversion Requests, reducing manual processing time by 40%
- Used Bluebeam to revise shop drawings detailing layouts of equipment within tunnels and stations
- Utilized AutoCAD to design CMRS cross-sections, train envelope diagrams, and construction shanty layouts
- Reviewed Cable Plans, MTA C&D Double and Single line drawings to generate Material Takeoffs

AMERICAN SOCIETY OF MECHANICAL ENGINEERS AT STONY BROOK Stony Brook, NY
President May 2022 – Jan 2023
- Developed a new website to promote the organization, including a responsive front-end and self updating content
- Taught classes in MATLAB to club members
- Plan events to increase organization popularity and member retention, including collaborations with other clubs
- Participated in monthly meetings to present club plans, finances, and progress

STONY BROOK MOTORSPORTS New York, NY
Mechanical Engineer Aug 2021 – Dec 2021
- Worked with a team to design, develop, build, and test a vehicle for the Baja SAE competition

ID TECH CAMPS New York, NY
Instructor May 2022 – Present
- Taught one-on-one math & software development courses with 30% of first-time clients re-enrolling in weekly classes
- Wrote daily session reports for each student to keep parents informed of their child's progress and improve client retention

MARNI HALASA CITY COUNCIL CAMPAIGN New York, NY
Web Developer Team Lead Sep 2020 – Jan 2021
- Designed and deployed a new WordPress website to promote the campaign and supervised two junior developers
- Developed PHP plugins as well as custom javascript effects to create a modular backend and responsive front end design.

GREATER ASTORIA HISTORICAL SOCIETY Long Island City, NY
Software Developer May 2019 – Jan 2021
- Designed new organization website frontend and backend using PHP & WordPress, resulting in a 300% user traffic increase
- Developed a python script for automated parsing and population of spreadsheets with 22,000+ entries, reducing manual processing time by 60%
- Developed Java programs to automatically enhance image files of scanned in maps

EDUCATION

STONY BROOK UNIVERSITY Suffolk, NY
B.E Mechanical Engineering, GPA: 3.66 May 2025

ADDITIONAL

Technical Skills: AutoCAD, Bluebeam, Fusion 360, Autodesk Inventor, MATLAB, Visual Basic & Excel, Python, Java, JavaScript, C#, C, HTML & CSS, PHP, MySQL, Arduino

Licenses & Certifications: OSHA-30, NYCT Track Safety, Autodesk Inventor Professional