

DISHA BARUA

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OBJECTIVE

Experienced engineer with capabilities to execute technical activities and manage projects seeks a position that is challenging and rewarding.

EDUCATION

University of Central Florida Coding Boot Camp

07-2022

MS in System Engineering

Expected Graduation Date -12/2023

Florida Institute of Technology (<https://www.fit.edu>)

BE in Mechanical Engineering

Received 12/2017

City College of New York (<https://www.ccny.cuny.edu>)

WORK EXPERIENCE

Electronics Engineer, Northrop Grumman

06/2020- Present

- Provide post-production support such as identifying technical issues, cost reduction, and product refresh/redesign.
- Coordinate with cross-functional teams to support product development.
- Manage projects, and work with cross-functional teams to allocate resources for reducing cost and schedule impacts.
- Support technical interface meetings and preliminary and critical design reviews to mitigate risks.
- Define, create, and update requirements for products.
- Create a Statement of Works (SOW) for each technical refresh effort.
- Review and provide feedback for system requirements, statements of work, and qualification test procedures.
- Install, configure, and execute testing for different electronic equipment to troubleshoot failures.
- Investigate previous failures to identify trends and opportunities for improvement.
- Mentor new engineers and provide training for different tasks and processes.
- Coordinate and organize team bonding activities.

EBU Field Test Engineer, Cummins Inc.

11/2019-01/2020

- Execute field tests as well as track any changes in vehicle performance.
- Install engine and calibration for vehicles, troubleshoot, and documented installation-related information.
- Monitor vehicle performance, troubleshoot, and document fault codes.
- Install data logger in vehicles and record data from field tests.
- Assist customers with different work requests to validate engine performance.

EBU Test Engineer, Cummins Inc.

04/2018-10/2019

- Execute testing, including the completion of periodic service items for internal combustion engines.
- Create test plans, communicated with stakeholders, and wrote technical reports while running tests.
- Assist customers with processing, plotting, and analyzing data.
- Work as a mapping coordinator and communicate with the customers to schedule testing promptly.
- Work as a training leader for the team, providing support and information to new test engineers.
- Work as a mentor and supported fellow test engineers to run tests efficiently.
- Contribute to team projects to improve the engineering workflow.
- Organize several team bonding activities as well as hosting and scribing the team meetings.

Product Engineering Co-op, Cummins Inc.

05/2017-08/2017

- Create an architecture sheet to document all the sensor specifications for 60-liter engines.
- Investigate duty cycle data to understand and investigate engine performance.
- Modify existing tools to conduct duty cycle analysis to verify emissions regulations.
- Disassemble and re-assemble a 9-liter internal combustion engine to understand the correlation of various parts.

Research Associate Intern, NASA Glenn Research Center

01/2017-04/2017

- Apply engineering computations and modeling to build a lumped-parameter model to investigate Visual Impairment and Intracranial Pressure (VIIP) syndrome.
- Use MATLAB and MATLAB Simulink to create the models and run the physiological simulations.

Research Associate Intern, City College of New York**06/2014-05/2015**

- Investigate structural characteristics, such as strength and fracture mode of glass fiber composites.
- Analyze data to understand the nature of the modified material and how it reacted in various conditions.

SKILLS

Full-stack web development, System Requirements, Model-Based System Engineering, Testing, Project management, Problem-solving, Troubleshooting, and Data Analysis.

TECHNICAL BACKGROUND

Engineering Software: SolidWorks, HSM, CREO, Fusion 360; CALTERM 4, Arena, MagicDraw, JIRA, Atlassian.

Computer Languages: MATLAB, G-code, GP script (Used in Putty), JavaScript, HTML, CSS, SQL, Python.

Manufacturing: CNC machining, compression molding, 3D-printing, Welding, Soldering

PROFESSIONAL AFFILIATIONS

Society of Women Engineers (Member)

04-2015 - Present

American Institute of Aeronautics and Astronautics (Secretary in CCNY Chapter)

01-2016 - 06-2017

Society of Hispanic Professional Engineers (Public Relations Manager)

12-2015 – 12-2016

Society of Asian Scientists and Engineers (Corporate Sponsorship Coordinator)

01-2017 -12-2017

National Society of Black Engineers

01/2016 -12-2017

Association of Latino Professionals For America (Member)

06-2022 - Present**PERSONAL DATA**

Immigration status: Citizen, U.S.A.

Clearance: Secret