

DISHA BARUA

Phone: 321-371-0000

Address: 740 Boughton Way, W Melbourne, FL 32904

LinkedIn: <http://www.linkedin.com/in/dishaaa>

Email: disha.barua1@gmail.com

OBJECTIVE

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

EDUCATION

University of Central Florida Coding Boot Camp

Expected Completion Date-07-2022

MS in System Engineering

Expected Graduation Date -12/2023

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

BS 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.
- Support technical interface meetings, preliminary and critical design reviews to mitigate risks.
- Review and provide feedback for system requirements, statements of work, and qualification test procedures.
- Manage projects, organize different teams and tasks to allocate resources for reducing cost and schedule impacts.
- Install, configure, and execute testing for different electronic equipment to troubleshoot possible failures.
- Investigate previous failures to identify trends and opportunities for improvement.

EBU Field Test Engineer, Cummins Inc.

11/2019-01/2020

- Executed field tests as well as tracked any changes in vehicle performance.
- Installed engine and calibration for vehicles, troubleshoot, and documented installation-related information.
- Monitored vehicle performance, troubleshoot, and documented fault codes.
- Installed data logger in vehicles and recorded data from field tests.
- Assisted customers with different work requests to validate engine performance.

EBU Test Engineer, Cummins Inc.

04/2018-10/2019

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

Product Engineering Co-op, Cummins Inc.

05/2017-08/2017

- Created an architecture sheet by documenting all the sensor specifications for 60-liter engines.
- Investigated duty cycle data to understand and investigate engine performance.
- Modified existing tools to conduct duty cycle analysis to verify emissions regulations.
- Disassembled and re-assembled a 9-liter internal combustion engine to understand the correlation of various parts.
- Conducted the Fuji Paper test and delivered data to product validation engineers.

Research Associate Intern, NASA Glenn Research Center

01/2017-04/2017

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

Mechanical Engineer Intern, Duro UAS

07/2016-09/2016

- Helped design various units of the AUV (Autonomous Underwater Vehicle) and run simulations.
- Investigated which software was needed to automatically run code on the CNC machine.

Research Associate Intern, City College of New York

06/2014-05/2015

- Investigated structural characteristics, such as strength and fracture mode of glass fiber composites.

- Analyzed data to understand the nature of the modified material and how it reacted in various conditions.

SKILLS

Project management, Troubleshooting, Data Analysis, System Requirements, Qualification Testing, Web Development.

TECHNICAL BACKGROUND

Software/Hardware: SolidWorks, HSM, CREO, Fusion 360; CALTERM 4, circuit construction, Arena.

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

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

PERSONAL DATA

Immigration status: Citizen, U.S.A.

Clearance: Secret

Portfolio: <https://disha2022.github.io/disha-portfolio/>