

# DISHA BARUA

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## **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/>