

# Rochester, NY

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## Work Experience \_\_\_\_\_

L3Harris Technologies Rochester, NY

ASSOC. MECHANICAL ENGINEER

Feb. 2020 - Present

- Led winning design for the DarkWing Flat Panel VSAT articulation through consolidation of parts, utilizing Autodesk Inventor and ANSYS Mechanical, resulting in a successful bid for a \$2.1 million contract.
- Successfully remodeled and optimized machined components of the Hawkeye 4 Lite VSAT for casting in aluminum, resulting in a 15% reduction in overall cost through cost-effective manufacturing method.
- Designed and built a test fixture to improve system reliability and agility, reducing feedback time and design time by 20%.

21st Century Group Baltimore, MD

MECHANICAL ENGINEERING CO-OP

Aug. 2017 - Dec. 2017

- Assisted the assembly and installation of a high-speed package sorter (HSPS) in Queens, NY over a 3-month period, resulting in an increase of over 10,000 package capacity monthly.
- Utilized Autodesk Inventor to design and upgrade parts for old high-speed flats feeders (HSFF) in Philadelphia, resulting in a 30% increase in feeder performance.

GE Aviation Bohemia, NY

MECHANICAL ENGINEERING CO-OP

Aug. 2016 - Dec. 2016

- Built a test fixture to automate switch testing using Arduino and Java, reducing testing time by over 4X.
- Developed a streamlined process for PCB heat management using ANSYS, Excel, and Oracle to reduce PCB prototyping turnover from months to weeks.
- Investigated avionic failures using stress-analysis and FEA techniques and reported results to GE Aviation and customers to salvage a multi million dollar contract.
- Worked on live in-flight diagnostic instrumentation using control system analysis and step responses to predict points of failure and to improve safety for hundreds of end-users.
- Conducted cost-effective experiments with prototypes, documented results and delivered presentations to company peers as well as suppliers and customers.

#### **Rochester Institute of Technology**

Rochester, NY

MICROFABRICATION LAB ASSISTANT

Feb. 2015 - Aug. 2015

- · Maintained and operated equipment, including cleaning and calibrating as needed.
- Collected and analyzed data using software such as Excel and Matlab.
- · Ensured that the lab was clean and organized, and that all materials and equipment were properly stored and labeled.

### **Skills**

Manufacturing 3D Printing, Assembly, Soldering

**Engineering** Autodesk Inventor, Solidworks, ANSYS, Matlab

**Programming** Node.js, Python, JAVA, LaTeX, VBS

Office Microsoft Word, PowerPoint, Microsoft Project

## **Education**

### RIT (Rochester Institute of Technology)

Rochester, NY

B.S. IN MECHANICAL ENGINEERING

Aug. 2014 - May 2020

NCEES New York, NY

FE Mechanical Exam - PASS Dec. 2019

JANUARY 26, 2023 Mena Ibrahim · Résumé 1