

# Delona Mcivor

Research Engineer

## Profile

Katherine James has over five years of experience as a research engineer and is passionate about improving engineering processes. She seeks to identify inefficiencies and optimize performance through careful analysis and thoughtful design solutions. Katherine's skills include process mapping, statistical analysis, lean principles, Six Sigma tools, and root cause analysis. As a result of her analytical work, she has been able to increase productivity by 30% while reducing waste by 50%.

## Employment History

### Senior Research Engineer at Boeing (Washington)

Feb 2022 - Present

- Oversaw the development of a new type of polymer that was stronger and more heat resistant than any other on the market
- Developed a process for mass production of graphene nanoribbons
- Created a new way to produce semiconductors with 75% less defects
- Devised a method for growing crystals in zero gravity conditions
- Wrote algorithms that increased the efficiency of solar cells by 35%

### Junior Research Engineer at Lockheed Martin (Maryland)

Jul 2018 - Jan 2022

- Developed a new method for measuring the vibro-acoustic response of materials that improved accuracy by 10%.
- Created a simulation tool that was used to successfully test the feasibility of a new product design, saving the company \$200,000 in prototyping costs.
- Authored or co-authored 12 papers published in peer-reviewed journals.
- Led the development of a new type of 6DOF force sensor that achieved market success and generated \$10 million per year in revenue for 3 years before being discontinued..
- Successfully completed over 15 major projects with customer satisfaction ratings above 95%.

## Education

### B.S. in Chemical Engineering at Villanova University, Villanova, PA

Sep 2014 - May 2018

The technical skills I learned while studying Bachelor's degree in Chemical Engineering include nuclear power plant design, heat transfer, and mass transport phenomena.

## Certificates

### Certified Research Engineer (CRE)

Feb 2021

### Certified Quality Engineer (CQE)

Dec 2019

### Certified Engineering Technician (CET)

Apr 2018

## Details

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## Links

[linkedin.com/in/delonamcivor](https://www.linkedin.com/in/delonamcivor)

## Skills

Programming languages: Java, Python, C++

Machine learning

Data mining and modeling

Natural language processing (NLP)

Information retrieval (IR)

Operating Systems: Linux

## Languages

English

Mandarin