Dat Le

Boston, MA

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EDUCATION

UMass Lowell

Lowell, MA | Dec 2016

B.S.E. in Mechanical Engineering

SKILLS

PROGRAMMING
- Python
- SQL
- C#

DATA VISUALIZATION
- Tableau
- Matplotlib
- Seaborn

OFFICE
- Word
- Excel
- PowerPoint
- Outlook
- Teams

ENGINEERING SOFTWARE
- Thermal Desktop
- FEMAP
- MATLAB
- Spaceclaim
- Solidworks
- Inventor

PROFESSIONAL SUMMARY

Mechanical engineer with 5+ years of experience in thermal design, analysis, and test of space vehicles and payloads. Seeking to advance career by applying engineering, programming, and analytical skills to data-focused roles.

EXPERIENCE

Quartus Engineering

Project Engineer

San Diego, CA | Dec 2019 – Mar 2022

- Conducted thermal analysis of aerospace and commercial applications to evaluate system performance and behavior
- Recommended design changes based on analysis results while considering customer's business and project needs
- Communicated analysis methodologies, assumptions, and key takeaways to technical and non-technical audiences
- Automated postprocessing and plotting of large results data sets using MATLAB, Python, Pandas, and Matplotlib
- Created custom C# programs and GUIs to augment model-building, analysis, and results postprocessing using Thermal Desktop API

L3Harris Space Imaging Division, SSG

Thermal Engineer

Wilmington, MA | Mar 2017 – Oct 2019

- Performed thermal design and analysis of spaceborne optical telescope assemblies and mechanisms
- Authored procedures and performed setup and monitoring for thermal vacuum tests
- Presented design concepts and analysis results to customers and program leads at design reviews

Lowell Center for Space Science and Technology (UMass Lowell)

Undergraduate Research Assistant

Lowell, MA | Sep 2015 – Jan 2017

- Supported design and analysis of exoplanet imaging payload aboard high-altitude balloon
- Authored MATLAB script to manually determine on-orbit, transient thermal environment for CubeSat