

Education

Bachelor of Science in Applied Physics and Applied Mathematics
Kettering University, Oct 2016 - Jun 2020

Experience

Engineering Co-op at LG

- Performed validation engineering on the OnStar vehicle security system.
- Quality engineering to problem-solve issues with LGs infotainment systems.

Jan 2017 - Mar 2017
Jul 2017 - Sep 2017

Engineering Co-op at Magna

- Performed Fatigue Analysis and generated S-N curves to estimate material lifespan.
- Used HyperMesh to mesh vehicle components and perform Finite Element Analysis and Computational Fluid Dynamics on the meshed models.
- Created custom Visual Basic script to test light homogeneity.

Jan 2018 - Mar 2018
Jul 2018 - Sep 2018
Jan 2019 - Mar 2019
Jul 2019 - Sep 2019
Jan 2020 - Mar 2020

Skills

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|-----------------------------------|----------------|
| • Mathematics | • Java |
| • Physics | • MATLAB |
| • L ^A T _E X | • Python |
| • HTML/CSS | • Visual Basic |

Projects

- RSA Encryption Application
 - Built TkInter application that generates public and private keys, as well as encrypts messages.
- Modal Analysis
 - Performed Modal Analysis on a sword using COMSOL Multiphysics. The simulation results were compared to physical measurements of the swords modal frequencies, along with their expected theoretical values.