

## Education

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### Bachelor of Science in Applied Physics and Applied Mathematics

Kettering University, Oct 2016 - Jun 2020

## Experience

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### Engineering Co-op at LG

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- 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

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- 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       |
| • $\text{\LaTeX}$ | • Python       |
| • HTML/CSS        | • Visual Basic |

## Projects

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- 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.