

RoseHulman Institute of Technology
Optical Engineering
3.98 GPA
Junior
(812)8778475
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To obtain a summer internship experience that involves optical engineering

(2017-present)

- Bachelor of Science in Optical Engineering and Engineering Physics
- Expected graduation in May 2021

Optical

Physical and Geometrical Optics, Photonic Devices, Linear Optical Systems, Optomechanics,
Engineering Physics
Nanoengineering, Many Particle Physics, Modern Physics, Electric and Magnetic Fields, Semiconductors

Bloomington, IN (May –July 2018)

This internship required designing parts and working with a machine shop to create a system designed to align a 100 x 100 mm microchannel plate with a Low Energy Neutron Source for neutron imaging

Terre Haute, IN (2017-May 2018)

This research experience exploring spectrometer software to collect power data from color LEDs. This data tested and compared properties of multiple models of integrating spheres.

Cleanroom

- Fabricating silver nanoparticles and nickel nanowires
- Using an x-ray diffraction machine and software to set up lenses and screens using optical rails, filters and fiber light sources
- Locating of cardinal points of a lens
- Measuring aberrations using focused images

Optical Society of America Student Chapter (Vice President, Winter 2017)
RoseHulman Women's Trade Team (Captain, Fall 2017)
3D modeling in SolidWorks