

# Dylan Shane

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## *Current Address*

Vanderbilt University, PMB 351208  
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## *Permanent Address*

2835 Willow Street Pike  
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## **EDUCATION**

**Vanderbilt University**, Nashville, TN

May 2016

Bachelor of Engineering, Mechanical Engineering

Minor: Materials Science and Engineering

Cumulative GPA: 3.59/4.0      Mechanical Engineering GPA: 3.90/4.0

## **ENGINEERING**

**Vanderbilt Aerospace Design Lab**, Nashville, TN

2015-2016

## **EXPERIENCE**

*Materials-Structural Engineer*

- 3x NASA University Student Launch Initiative national champions (2013, 2014, 2015)
- 2015 NASA Student Launch Autonomous Ground Support Equipment Design Award
- 2x NASA Student Launch Website Design award (2014, 2015)
- 2013 NASA Student Launch Payload Design Award (air breathing subsonic ramjet engine)

**Material State Monitoring Using CdSe Nanocrystals**, Nashville, TN

2015

*Research Assistant—Laboratory for System Integrity and Reliability*

- Designed and fabricated custom instrument to measure emission spectra of CdSe nanocrystals embedded in composite matrix during application of external load
- Correlated emission spectra to applied load
- Examined usefulness of embedded CdSe nanocrystals for material state monitoring

## **WORK**

**Vanderbilt University**, Nashville, TN

2015

## **EXPERIENCE**

*Teaching Assistant—Department of Mechanical Engineering*

- Worked as a teaching assistant during the Fall 2015 semester for Fluid Mechanics
- Held office hours, conducted review sessions, and graded tests and assignments

## **ACTIVITIES**

**American Society of Mechanical Engineers**

**Vanderbilt International Relations Association**

**Vanderbilt University Theatre**

## **SKILLS**

Proficient with Microsoft Office, MATLAB, PTC Creo Parametric, Arduino, Research Experience with Mathematica, LabVIEW, ANSYS