

# NAM H. PHAM

127 East Hamilton Ave.  
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**OBJECTIVE:** To seek a full-time position in the field of Mechanical Engineering after graduation.

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## EDUCATION:

**The Pennsylvania State University**, University Park, PA

Graduation Date:

May 2014

*Bachelor of Science in Mechanical Engineering*

Cumulative GPA: 3.42/4.00

**Relevant Courses:** MATLAB for Engineers, Thermodynamics, Fluid Flow, Heat Transfer, Mechanical Design, Microcomputer Interfacing

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## WORK EXPERIENCE:

**Architectural Engineering Department**

Summer 2013 - Present

*Structures Research Assistant*

- ❖ Responsible for the calibration and operation of the dynacalibrator devices to produce the desired formaldehyde (HCHO) concentration
- ❖ Worked with HCHO sensors such as RKI, Shinyei, and DCGI
- ❖ Preliminary analysis is used to predict the HCHO concentration with the aid of Excel
- ❖ Assisted in the restoration of experimental setups, such as the climate chamber and spray rack
- ❖ Calibrated gas flow meters with the aid of the BIOS gas flow calibration device
- ❖ Constructed gas flow connections using NPT and compression pipe fittings

**Pennsylvania Department of Transportation (PennDOT)**

Summer 2012

*Aggregate Material Tester*

- ❖ Responsible for testing aggregates to determine their resistance to disintegration by saturated solutions of sodium sulfate (Na<sub>2</sub>SO<sub>4</sub>)
  - ❖ Separations of coarse aggregates were done through manual sieving
  - ❖ Exceeded the minimum samples required for each round of testing with an average of 80 samples per test
  - ❖ Completed tests were done with minimal losses of samples during the process
  - ❖ Analyzed and recorded numerical testing results with zero error
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## SKILLS:

MATLAB Programming, SolidWorks CAD Design Software, Arduino Microcontroller/Program  
Microsoft Office (Word, Excel, PowerPoint)

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## HONORS & SCHOLARSHIPS:

**Dean's list:**

Fall & Spring 2012

Leon Lowengard Scholarship Recipient

2013 - 2014

Harry N. and Melva A. Derickson Scholarship Recipient

2011 - 2014

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## LEADERSHIP & ACTIVITIES:

**Lunar Lion X-Prize Team**

*Member of the Structural Subsystem*

- ❖ Aided in creating CAD models (Solidworks) of the test stand for the rocket engine thruster
- ❖ Produced the chosen preliminary design concept of the RX Moon Lander
- ❖ Assisted in analyzing the predicted loads and stresses of the RX design concept using basic engineering mechanics and MATLAB

**Vietnamese Student Association (VSA)**

- ❖ Elected as the delegate of the organization and a member of the Public Relations Committee
- ❖ Constructed the original VSA organization's logo
- ❖ Participated in the traditional Vietnamese dance performance  
(2013 International Mother Language Day celebration showcase)