# Colton D. Steiner

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**OBJECTIVE:** Develop a career in materials science involved in soft materials and novel acoustic behavior

#### **EDUCATION:**

## Purdue University - West Lafayette, Indiana

2011 – Present

• Ph.D. Candidate, Materials Science and Engineering Overall GPA 4.0 on a 4.0 scale

#### University at Buffalo - SUNY - Buffalo, New York

2007 - 2011

•	B.S. in Mechanical Engineering	3.85/4.0
•	B.A. in Mathematics	3.51/4.0
•	Minor: Chemistry with Highest Distinction	3.83/4.0

- Graduation Summa Cum Laude: May 2011 Overall GPA 3.79 on a 4.0 scale

#### **University of Technology at Troyes – Troyes, France**

May-June 2008

• Studied Engineering Statics and French Civilization while exploring French culture

#### **EXPERIENCE:**

#### Purdue University – Materials Science & Engineering

2011 - Present

#### **Graduate Research Assistant**

- "Design, Fabrication and Characterization of Acoustic Metamaterials with Embedded Microresonators" – Fabricate resonator-filled polymer materials and tested acoustic transmission through sample thickness
- Advisors: Carlos Martinez and Jeffrey Youngblood

## Purdue University – Materials Science & Engineering

Fall 2011

#### **Teaching Assistant**

- Lead two weekly recitations of 40 students for MSE230
- Graded homework and exams, designed guizzes, held office hours

#### University at Buffalo – Dept. of Chemistry

Jan. 2008 – May 2009

## **Undergraduate Researcher**

- Analyzed different methods for the creation of ferromagnetic fluids
- Produced and ground ferrite samples to integrate into aqueous solution, recorded observations on resulting ferromagnetic fluid

#### **HONORS:**

- Andrews Fellow Purdue University
- Presidential Scholar University at Buffalo Honors College
- Dean's Scholar College of Engineering, University at Buffalo
- Dean's List –University at Buffalo (2007 2011)

## **Honors Societies:**

- Tau Beta Pi the engineering honors society
- Pi Tau Sigma international mechanical engineering honors society
- National Society of Collegiate Scholars (NSCS)

#### **LEADERSHIP ACTIVITIES:**

#### Materials Science & Engineering Graduate Student Association

• Graduate Student Secretary

June 2012 – Present

- Developed yearlong club funding proposal
- Mentored class of 25 first year graduate students

## Students for the Exploration and Development of Space (SEDS)

- Vice-President (one semester) coordinated with AIAA on Rocketry division
- *Treasurer* (three semesters) helped president regulate funding and develop fundraising ideas

#### **UB Robotics**

• Member (two semesters) – helped on mechanical aspects of "Bots Wars" robot

#### **Purdue Ultimate Club Team**

• Activities Officer (one semester) – coordinated and planned team bonding events

**SKILLS:** 

Proficient with Microsoft Office, AutoCAD, Autodesk Inventor, Matlab, C++, Maple, and Pro-Engineer Wildfire 4.0, ChemSketch, various nanoHUB programs