

# ROBERT DANIEL MINTER

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## **EDUCATION**

**M.S. in Mechanical Engineering, Texas A&M University, College Station, Texas (Expected graduation December 2017)**

- Electrochemical energy storage and conversion
- Lithium-ion battery science and technologies

**B.S. in Mechanical Engineering, Texas A&M University, College Station, Texas (December 2015)**

- Mechanical Engineering
- Graduated Cum Laude

## **HONORS AND RECOGNITION**

**Pi Tau Sigma National Mechanical Engineering Honor Society (2014-current)**

- Corporate speakers, social events, community service

**Phi Eta Sigma National Honor Society (2011)**

- Inducted 2011, based on academics

## **WORK EXPERIENCE**

**Energy and Transport Sciences Laboratory, Texas A&M University** January 2016-current, College Station, TX

- Graduate researcher
- Electrochemical energy conversion energy and storage
- Lithium-ion battery science and technologies

**Department of Mechanical Engineering, Texas A&M University** January 2016-current, College Station, TX

- Teaching assistant for undergraduate level dynamics and feedback control laboratory
- Instructor for two laboratory sections of 21 students each

**Lynntech** July 2015 – December 2015, College Station, TX

- US Air Force SBIR funded project for ultra-high energy and ultra-high power ultracapacitors
- Ultracapacitor electrolyte synthesis and characterization
- Ultracapacitor electrode/cell preparation, fabrication, and characterization

**Energy and Transport Sciences Laboratory, Texas A&M University** Summer 2015 – College Station, TX

- Undergraduate researcher for lithium-ion battery research
- Manufacture of porous electrodes, manufacture and testing of 2 and 3 electrode cells, battery performance testing (cycling, impedance, temperature)

**DBR Engineering Consultants** Summer 2013 & 2012 – Houston, TX

- Mechanical designer – HVAC systems for commercial buildings in Houston/surrounding area
- Coordinated mechanical design with electric & plumbing designers, architects, contractors, & clients
- Included thermodynamic building analysis, developing specifications for contractors, reviewing submittals/shop drawings & surveying in-progress & completed building structures

**The Woodlands United Methodist Church** Summer 2014 – The Woodlands, TX

- Maintenance & refurbishment projects

## **SKILLS**

- SEM Imaging (FEI Quanta 600)
- Well-versed in Windows 10/8.1/7, some experience with Mac and Linux
- Proficient in AutoCAD, Revit, Autodesk Inventor, Excel, Trace 700 (HVAC simulation), MATLAB, Loggerpro, Solidworks
- Intermediate fluency in Spanish language; written & verbal

## **SERVICE AND LEADERSHIP**

**Montgomery County Food Bank (February 2016)**

- Actively involved in a food drive that distributed food to ~500 families in the Conroe, Texas area

**Lemon Tree Park (November 2014)**

- Participated in Environmental/Beautification Service Project with Pi Tau sigma at local park  
**Lincoln Community Center (July 19<sup>th</sup>, 2014)**

- Performed rehabilitation of a local community center  
**Veterans Park & Athletic Complex (April 26<sup>th</sup>, 2014)**

- Actively involved in Environmental/Beautification Service Project at a local park

## **TRAVEL/MULTICULTURALISM**

### **Cultural Awareness**

- Attended the International School of Kuala Lumpur, Malaysia, 2004-2006
- Traveled to many countries including: Nepal, Thailand, Indonesia, New Zealand, Australia

## **EXTRA CURRICULAR ACTIVITIES AND INTERESTS**

**Design and construction of consumer-grade PCs**

**Texas A&M Badminton Club (2012-2013)**

**Chess**

**Piano**