

# CV of Zhong Guo (郭重)

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## EDUCATION BACKGROUND

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### PhD, Mechanical Engineering

*University of Florida, Gainesville, FL*

- Thesis: TBD
- Advisor: Prabir Barooah, PhD

**Expected: Dec 2022**  
**Starting Date: Jan. 2019**

### MS, Mechanical Engineering

*University of Florida, Gainesville, FL*

- Certification: Control Systems
- GPA: 3.80

**Graduation: Jan. 2019**  
**Starting Date: Aug. 2017**

### BS, Machinery Design Manufacturing and Automation

*Henan Univ. of Sci. & Tech., Luoyang, Henan, China*

- GPA: 3.70

**Graduation: Jul. 2017**  
**Starting Date: Sept. 2013**

## RESEARCH & TEACHING EXPERIENCE

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Research Interests: smart grid, virtual energy storage, convex optimization, system identification

### Teaching Assistant

*University of Florida, Department of Mechanical and Aerospace Engineering, Gainesville, FL*

- Courses: EML 4220 Vibrations
- hold office hours twice a week to support students
- Evaluate tests and quizzes

**Aug. 2019 – Present**

### Graduate Research Assistant

*University of Florida, Department of Mechanical and Aerospace Engineering, Gainesville, FL*

- Currently working on innovative approaches to characterizing virtual energy capacity of loads.
- Developed a method of characterizing virtual energy capacity in Fourier domain.
- Presented work at technical conferences and forums

**Jan. 2019 – Present**

### Teaching Assistant

*University of Florida, Department of Mechanical and Aerospace Engineering, Gainesville, FL*

- Courses: EML 4312 Control of Mechanical Engineering Systems
- hold office hours twice a week to support students
- Evaluate tests and homework

**Jan. 2019 – May 2019**

### Undergraduate Research Assistant

*Gear Manufac. and Equipment Center, Henan Univ. of Sci. & Tech, Luoyang, Henan, China*

- Participated in the “Design of Portable Meshing Tester for High Speed Small Module Spiral Bevel Gear”.
- Designed the base and transmission shaft of the tester.
- Worked as team leader.

**May 2014 – May 2016**

## PROFESSIONAL EXPERIENCE

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### Student Engineer Intern

**Jun 2016 – Aug 2016**

*Technology Center of Zhengzhou Yutong Bus Co., Ltd, Zhengzhou, Henan, China*

- Designed bus components using CATIA.
- Attended several workshops in the company.

### Student Engineer Intern

**Dec 2015 – Feb. 2016**

*Zhengzhou Yutong Heavy Industries Co., Ltd, Zhengzhou, Henan, China*

- Worked as vehicle outfitting engineer.
- Learned to design, check and optimize the outfitting of vehicles.

## PUBLICATIONS

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### Conferences

1. Zhong Guo, Austin R. Coffman, Jeffrey Munk, Piljae Im and Prabir Barooah, "Identification of aggregate building thermal dynamic model and unmeasured internal heat load from data", accepted at 58th IEEE Conference on Decision and Control, Nice, France, Dec. 2019

## HONORS & AWARDS

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Achievement Awards Scholarship for New Engineering Graduate Students	<b>Aug. 2017</b>
Outstanding Graduate in Henan Province	<b>Feb. 2017</b>
Excellent Student Cadre in Henan Univ. of Sci. & Tech.	<b>Nov. 2016</b>
Outstanding Graduate in Henan Univ. of Sci. & Tech.	<b>Nov. 2016</b>
National Endeavor Scholarship	<b>Oct. 2016</b>
Excellent Student Cadre in Henan Province	<b>Apr. 2016</b>
Second prize in China Undergraduate Mathematical Modeling Contest (Henan)	<b>Oct. 2015</b>
PEER Enterprise Scholarship	<b>Oct. 2014</b>
Excellent Member of Student Union	<b>May 2014</b>

## SKILLS & CERTIFICATIONS

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**Software/OS:** MATLAB, Windows, Linux, Microsoft Word, Excel, PowerPoint

**Programing Languages:** Microsoft Visual Basic, JAVA, LaTeX