

# Sterling Just

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## EDUCATION

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### University of Wisconsin – Madison

Sept. 2014 - May 2019

B.S. in Applied Mathematics, Engineering & Physics – emphasis: **Mechanical Engineering**

Certificate in Engineering Thermal Systems

Cumulative GPA: 3.52/4.00

**Relevant Coursework:** Numerical Linear Algebra, Nonlinear Systems and Chaos Modeling,  
Numerical Analysis, (Partial) Differential Equations, Computational Fluid Dynamics (CFD)

## EXPERIENCE

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### Engineering Head Tutor

Aug. 2016 – May 2019

### Undergraduate Learning Center

Madison, WI

- Facilitated large group drop-in-tutoring and individual tutoring-by-request sessions for:
  - Mechanical Engineering: Thermodynamics, Heat Transfer, Fluid Dynamics
  - Mathematics: Calculus & Analytic Geometry, Multivariable Calculus
  - General Physics: I (Mechanics), II (Electricity & Magnetism)
- Managed, scheduled, and organized 15-20 tutors during drop-in-tutoring nights
- With other tutors, aided 50-150 students per night with homework and course concepts

### Engineering Intern – Mathematical Modeling

May 2017 – Aug. 2017

### Indian Institute of Science

Bangalore, India

- Learned General Algebraic Modeling Software (GAMS) for mathematical modeling
- Modeled electric grid with real weather data, energy storage, and multiple fuel sources
- Used GAMS for optimization: minimized electricity cost given available fuel sources
- Developed confidence initiating projects and working independently
- Refined verbal and written communication skills through academic writing

## RELEVANT SKILLS

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- Expert in **Microsoft Office**
- Web design in **HTML, CSS, JavaScript**
- Numerical methods and algorithms in **MATLAB**
- Object-oriented programming in **Python**
- Version control with **Git** and **GitHub**
- Cloud computing with **AWS**
- Mathematics and data analytics
- Written and verbal communication
- Problem-solving