Lorenzo Coley

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WORK EXPERIENCE

Lecturer 2018 – Present
University of Alabama in Huntsville
Responsibilities:

- Lab preparation, setup, testing, and grading for the following classes:
  - MAE 271 Statics
  - MAE 311 Principles of Measurements of Instrumentation
- Coordinate teaching assistants for MAE 311L lab
- Coordinate group projects for MAE 311
- Class coordinator for MAE 211

Instructor 2010 – 2018
Mississippi State University
Responsibilities:

- Lab preparation, setup, testing, and grading for the following classes:
  - ASE 4113 Aerospace Engineering Laboratory I 2011 – 2017
    - Topics covered include LabVIEW programming, transducer calibration, data analysis, uncertainty analysis, data acquisition system, and circuit analysis
  - ASE 4721 Aerospace Engineering Laboratory II 2010 – 2018
    - Topics covered include material properties, supersonic flow through a converging-diverging nozzle, subsonic wind tunnel's physical properties, operation, and control systems, analysis of vibrating beam, and wind tunnel testing of various models
  - EM 2433 Engineering Mechanics II: Dynamics 2011 – 2014
  - EM 3313 Fluid Mechanics 2012, 2013, 2015
  - EM 2413 Engineering Mechanics I: Statics 2016 – 2017
  - EM 3213 Mechanics of Materials 2018
- Coordinate all the individual senior research projects
- Advise students on individual senior research projects
- Perform orientation and instruction of use of various equipment for fabrication of aircraft panel including metal shear, metal brake, drills, rivet guns, and router
- Supervised 3 teaching assistants and 7 student workers total
- Building operator for Patterson Engineering Laboratories (~ 17,000 ft^2)
- Faculty Advisor for AIAA Student Branch

- Responsible for budget and acquisition of required equipment using lab fees
- ASE Facilities Committee Member, Mississippi State University

EDUCATION

Master of Science in Aerospace Engineering August 2010
Mississippi State University, Mississippi State, MS
- Thesis: Initial Design of a Methane and Oxygen Rocket Engine
- GPA: 3.62/4.00

Bachelor of Science in Aerospace Engineering May 2007
Mississippi State University, Mississippi State, MS
- Concentration: Aeronautics
- GPA: 3.46/4.00

SKILLS

- Responsible for giving 3-5 lectures per week
- Responsible for writing documentation for new equipment and lab procedures
- Responsible for grading over 1,000 lab reports
- Experience in wind tunnel testing including aerodynamic performance of wings and equipment verification
- Experience in rocket propulsion testing including bi-propellant rocket engines
- Experience with pressure transducers, load cells, strain gauges, thermocouples, vibration systems, and data acquisition systems
- Experience with NI LabVIEW, Matlab, Siemens NX, Python, Fortran, Arduino IDE, Microsoft Office

PROFESSIONAL AFFILIATIONS

- American Institute of Aeronautics and Astronautics
- American Society of Engineering Educators
- Experimental Aircraft Association
- Sigma Gamma Tau

AWARDS

- 2018 Faculty of the Year for the Aerospace Engineering Department at Mississippi State University