

Spencer T. Gautreaux

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Classification: U3 (Junior)

PROFESSIONAL

KidKraft – Summer Engineering Intern

June-August 2017, 2018

- Designed parts and assemblies in SolidWorks
- Adapted artistic concepts to manufacturable designs
- Proposed modifications to pre-production models to optimize production process based upon sample review and comments from factory
- Validated production samples against internal documentation to ensure accuracy
- Supported KidKraft’s international offices by answering technical queries

RESEARCH

3D Printing Continuous Carbon Fiber Reinforced Thermoset using 5-Axis Robot Arm

June 2019 - Present

- NSF REU Site in Cybermanufacturing (Grant #:EEC1757882)
- Explored novel method for 3D printing thermosetting composites
- Developed software control to execute manufacturing method
- Prepared paper and poster in coordination with Texas A&M’s College of Engineering Undergraduate Summer Research Program.

EDUCATION

Texas A&M University

Fall 2017-Present

- Bachelor of Science in Computer Science
- Business Minor
- Enrolled in Engineering Honors
- Cumulative 4.0 GPA
- Dean’s Honor Roll

Spring, Fall 2018
Spring 2019

Related Coursework

Design and Analysis of Algorithms
Artificial Intelligence

Engineering Calculus III
Business Information Systems Concepts

TECHNICAL SKILLS

- Proficient in: C++, Python, MATLAB
- Familiar with: Java, LabVIEW, Amazon Web Services
- Certified SolidWorks Professional 2019
- Experienced with woodshop tools, knee mill, and gunsmith’s lathe
- Knowledgeable in 3d printer, laser cutter, CNC Mill, CNC Lathe, and CNC Router preparation, operation, and limitations.

LEADERSHIP

Aggie FIRST Robotics Robots Done Quick Lead Engineer

2018-Present

Texas A&M University

- Planned and Executed RDQ Build in January 2019
- Responsible for selection and procurement of materials and personnel
- Collaborate with other south Texas RDQ teams to organize scrimmage
- Represented AFR at FIRST’s Houston World Championship
- Volunteer as FIRST Robot Inspector

2018, 2019