

# Jon Collegeman

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## Profile

4<sup>th</sup> Year Mechanical Engineering student with experience designing components for extracurricular school projects using Solidworks and Inventor. Able to program in C++, Java, Python, and Matlab and able to use Finite Element Analysis and interpret simulation results.

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## Education

Southern University

- Major: Mechanical Engineering
  - GPA: 3.08/4.00
  - Minor: Mathematics & Physics
  - Expected Graduation: Fall 2018
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## Relevant Extracurricular Experience

Solar Car Project 2015-2016

*Mechanical Engineering team member*

- Designed and tested components for array attachment mechanism for solar powered car using Inventor. Performed stress tests on components using finite element analysis in Inventor.
- Performed maintenance for older solar car model, such as removing battery, changing brakes, and repairing suspension.

Satellite 2016-2017

*Orbit and Navigational team lead*

- Currently leading a team to design and test a tracking system for a small satellite, using the radio communication system to transmit location and orbital data to the approximate orbit.
  - Performed vibrational and compression stress testing on chassis using FEA in Inventor.
  - Currently creating assembly of satellite subsystem in Soidworks.
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## Work Experience

- Convenience store, *Customer Service & Sales* 2013-2016
  - Tutoring Center, *Physics and Mathematics Tutor* 2013
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## Programs and Languages

- 3D & 2D CAD: Modeling with Solidworks, Inventor, and AutoCAD
- Mathematical model programming: Matlab, Mathcad, and Excel
- Circuit Design: LTSpice, VSpice
- Languages: C++, C, Java, Python