

Sarah Ann Garcia

Address:

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Contact Information:

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Experience:

August 2017 – Present

Private Math & Science Tutoring - Columbus, GA

Tutor

- Tutored the following subjects: Pre-Algebra, Algebra I, Algebra II, Geometry, Pre-Calculus, Chemistry, & Calculus II
- Worked with various age ranges from middle school through college

October 2013 – May 2017

Trackmobile LLC - LaGrange, GA

Mechanical Engineer

- Responsible for hydraulic and mechanical design for varying machine elements
- Utilized SolidWorks 3D CAD software for design, FEA, and machine drawings
- Experienced with electrical harness design
- Familiar with basic SAE J1939 CAN bus diagnostics, including use of CanCapture diagnostic tool
- Experienced with Class1 multiplex controller database construction and troubleshooting
- Experienced with Murphy GUI programming and basic diagnostics, including graphic element creations
- Developed design elements to streamline manufacturing process (pneumatic harness systems)
- Internal audit training for ISO 9001
- Certified Fluid Power Hydraulic Specialist through the International Fluid Power Society (IFPS)

Summer 2012

MTS Systems Corporation - Eden Prairie, MN

Mechanical Engineering Intern

- Performed friction analysis and testing for swivel joints and a composite clutch material
- Tested/set up an advanced controller and hydraulic system for a Road Simulator
- Designed and set up bearing housing oil monitoring for a Rolling Road system

Summer 2011

ExxonMobil Corporation (Beaumont Polyethylene Plant) - Beaumont, TX

Machinery Engineering Intern

- Determined root-cause of pump failure and implemented improvements
- Gained experience with plant maintenance and equipment
- Experienced working through a mechanical line overhaul

January 2011 – October 2011

The Georgia Institute of Technology - Atlanta, GA

Computer Science Teaching Assistant/Tutor

- Gave a weekly lecture review
- Tutored in the Computer Science department
- Graded homework assignments, labs, and tests

Summer 2010

Cummins - Columbus, IN

Service Engineer Intern

- Created training documentation for turbocharger failure analysis
- Experience with Six Sigma
- Training courses: Engine Familiarization, Component Evaluation & Failure Analysis, and MATLAB

January 2008 – May 2010

Columbus State University Math and Science Learning Center - Columbus, GA

Math and Science Tutor

- Tutored all levels of mathematics through Calculus III
 - Tutored Chemistry and Physics
 - Interacted with and taught students
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Education:

August 2017 – May 2018

Thinkful: Full Stack & Data Science – Online

- Full Stack Web Developer
- Languages: HTML, CSS, JavaScript, jQuery, Node, & React

August 2010 – May 2013

Georgia Institute of Technology - Atlanta, GA

- BS in Mechanical Engineering
- GPA: 3.94

August 2007 – May 2010

Columbus State University - Columbus, GA

- Major: Engineering
- Regents Engineering Transfer Program

Awards & Activities:

- Volunteer at MercyMed of Columbus, *January 2018 - Present*
- Member of ASME, *2010-Present*
- Certificate of Academic Honor for Outstanding Achievement in Engineering, *2010*
- ExxonMobil Technical Scholarship Award, *2011-2012*
- Hispanic Scholarship Fund General College Scholarship, *2011-2012*
- Women in Engineering Scholarship, *2011*
- The Cummins Foundation Scholarship, *2010-2011*
- Hispanic Scholarship Fund General College Scholarship, *2009-2010*

Skills:

- Experience with: CANCapture, Murphy PowerVision, SolidWorks, MATLAB, Es-Key Pro, Microsoft Office, Maple, LoggerPro, and AutoCAD
 - Presenting and analyzing data
 - Technical writing skills
 - Problem solving
 - Root cause analysis
 - One-on-one tutoring
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