

# Casey McGaughey

19548 Crystal Oak, San Antonio, Texas, 78258 | (916)712-6915 | caseymcgaughey97@gmail.com

## Education

- University of Texas at San Antonio 2016 - Present  
Major: B.S. Mechanical Engineering Expected Graduation: May 2020 GPA: 2.7
- Relevant Coursework: Applied Probability and Statistics for Engineers, Mechanics of Solids, Dynamic Systems & Controls, Fluid Mechanics, Manufacturing Engineering, Auto Vehicle Dynamics, Machine Element Design, Mechatronics, Heat Transfer, Finite Element Analysis, Senior Design I, Thermal & Fluids Laboratory
  - Current Courses: Senior Design II, Corrosion Engineering, Compressible Flow and Propulsion Systems
- Alamo Community College District 2018
- Associates of Science (Engineering)

## Work Experience

- Gold Shirt Enterprises | Fabrication Lead September 2019 - Present
- Senior design group developing a robotic end effector for manufacturing.
- Dominion Country Club | Outside Service Attendant June 2018 - Present
- Crescent Oaks POA | Lifeguard May 2015 - August 2018

## Skills & Abilities

- Certified SolidWorks Associate
- Experience with ANSYS, MATLAB, Photoshop, Dreamweaver, Microsoft Office, and Windows
- Exposure to welding and various machining equipment

## Awards, Affiliations, & Organizations

- American Society of Mechanical Engineers September 2018 - Present
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers January 2019 - Present
- San Antonio Water Polo Club 2009 - Present
- Water Polo Club at UTSA October 2017 - May 2019
- Founder and President
- Boy Scouts of America 2008 - 2015
- Venture Crew 2012 - 2015
- President: Focused on providing an enjoyable and responsible environment while promoting leadership and integrity.
- Eagle Scout June 2011
- Project: Build a large and durable storage option for special education students at Smithson Valley High School who had been dealing with the theft of equipment they used every day, sanding and staining of existing picnic tables, and providing umbrellas so they could enjoy the outdoors in the shade.
- Alamo Area Council Glenn A. and Melinda W. Adams National Eagle Scout Service Project of the Year Award – 2012
  - Hill Country Resort Lions Club Excellence in Altruism Award – 2012

## Volunteer Experience

- Valero Texas Open 2015 - 2019
- Performed various tasks including uniform distribution, player transportation, and refreshments and snacks along the course for the Valero Benefit for Children.
- Personal Energy Transportation (P.E.T.) 2014 - 2016
- Worked in a machine shop building hand-crafted mobility carts for disabled people in third world countries and places without access to paved roads and power.
  - Used blueprints, machines, and calipers to produce parts within the specified tolerances for accurate and safe products.