

Tristan Ydrovo
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SUMMARY: I am a graduate from the University of South Carolina and currently looking for work that is related to my field of study in mechanical engineering. I have worked with the Robotics program as a Mechanical Engineer and as an Entry-Level Engineer with Aerotek. Currently, I am improving my working knowledge on SQL (Structured Query Language) in order to become more adapted to the working world of engineering.

EDUCATION

Trident Tech College QuickJobs Learning Center, St. George, SC. JULY 15, 2019 – AUG 6, 2019

ManuFirstSC and OSHA 10 certifications

Directed class projects by implementing strong communication and team building, maximized classroom settings to enhance lean manufacturing mathematic skills, surpassed instructor expectations with 100% on end of course exam, and demonstrated proper use and care of precision measurement tools.

University of South Carolina. Columbia, SC.

Awarded Bachelor of Science in Mechanical Engineering.

Cumulative GPA: 3.101. (Dean's List from DEC 2014 - DEC 2015) (DEC 2017-MAY 2018)

Fort Dorchester High School. North Charleston, SC. International Baccalaureate Student

High School GPA: 3.984. (Awarded IB Diploma) Treasurer of the FDHS Chess Club.

EXPERIENCE

WORK EXPERIENCE

Aerotek, Entry Level Engineer, AUG 2019-OCT 2019

- Worked as a representative for Sportsman Boats to determine quality of fuel tanks to be installed for all boats.
- Inspected fuel tanks for quality in measuring torque on screws on the Ullage Vent Valve and Ullage Fuel Valve. I also supplied pressurized air to the fuel tanks at 3.5 psi and sprayed with a soapy water mixture to find possible leaks.
- If the leaks are found, the following methods are used to determine root cause of leak: Re-torque the screws if they are measured under 25 in-lbs., or use Slic-Tite at the NPT threads if needed.
- Otherwise, the parts are disassembled to find any blowholes within the nylon barrier or any warping defects, and if this is the case, then the tanks are shipped back with RGA documentation.
- All data is recorded with torque values, tank number, serial number, and whether they passed the leak test with notes and reasons for why a particular tank has failed. The notes are then emailed back to the manager to help improve the tanks at Dometic.

Charleston Animal Society, Volunteer, APR 2019-JAN 2020

- Dedicated time and effort to make products for enrichment and to treat the animals with care for adoption.

Advance Ventures Marketing, Account Manager, DEC 2018-FEB 2019

- Provided product knowledge to clients using professional business techniques and strong work ethic to promote managerial and leadership skills.

Tropical Smoothie Café, Crew Member, AUG 2018-NOV 2018

- Adapted to a fast-paced working environment to prepare and make food, smoothies, and to clean the restaurant as required.

PROJECT EXPERIENCE

Apex Power Tools, SEPT 2017-MAY 2018 (Co-op program)

- Provided co-operation between the company and three classmates in developing a lubrication system for Advanced Drilling Equipment.
- Applied complex equations to build a theoretical schematic of the project (Bernoulli's Equation, Ideal Gas Law, etc.)
- Involved R&D of the parts and building schematic, the creation of the Bill of Materials, and continuous improvement methodologies to construct the project within the timeframe required at the given parameters.
- Reference: Rolf de Swardt, Director, R&D – Drive Train Technology. Apex Tool Group, LLC. 670 Industrial Drive, Lexington, SC, 29072. Office: (803) 951-7579. Mobile: (803)979-3762. Email: rolf.deswardt@apextoolgroup.com

FIRST Robotics Student, JAN 2012-MAY 2014

- Enlisted as a mechanical engineering role in developing the main structure of the Team 342 Robot, which requires completion in a time period of six weeks.
- Included the building of a duplicate robot for testing the drivetrain, handling, speed, and functionality for the actual robot.

SKILLS AND CERTIFICATIONS

(SKILLS) Programming: Microsoft Office, PTC Creo, Anaconda-Jupyter, Alice, MATLAB, SMATH, Maple 18, SQL (self-taught)

Teamwork: Conveys ideas to provide further understanding, completes work by deadline with high quality.

(CERTIFICATIONS) ManuFirstSC Certificate (1 year of lean manufacturing experience)

Work Keys Gold Level Certificate (Awarded on 8/14/19, Recognized nationally on 8/21/19)

(Applied Math Level 7, Workplace Documents Level 5, Graphic Literacy Level 7)

OSHA 10 Certificate (Awarded 7/23/19)

WIN Test Silver Certificate

(Ready-to-work Courseware: Applied Math Level 7, Locating Information Level 6, Reading Information Level 4)

Engineer-In-Training Certificate (Awarded December 29, 2018, issued on Jan 9, 2019)

<https://account.ncees.org/rn/1981103-1165841-415fb59>

ACT Gold National Career Readiness Certificate (Awarded November 4, 2013)