

Ryan Flickinger

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OBJECTIVE

Focused and motivated professional seeking an opportunity to grow engineering program management, operations, and design skills

EDUCATION

Bachelor of Science: Mechanical Engineering
University of Florida, Gainesville, FL

December 2023
3.70

PROFESSIONAL EXPERIENCE

TESLA, Fremont, CA

Jan 2023 – August 2023

Mechanical Design Co-Op / Cell Manufacturing

- Designed and assembled an offline test machine to quantify performance of machine vision hardware
- Test machine allowed for precise independent control of four selected components in three different degrees of freedom
- Designed parts in CAD, completed drawings with proper GD&T, and worked with vendors to achieve manufacturing deadlines
- Engineered and installed light baffle assemblies on mass production tools improving machine vision inspection accuracy
- Machined and installed camera shroud assemblies for an offline measurement device reducing total tool downtime

L3Harris, North Amityville, NY

May 2022 – August 2022

Mechanical Engineering Intern

- Created a retainer merging existing designs to improve pneumatically launched sonobuoys' exit velocities by 10.6%
- Selected part material coatings for a high-altitude compressor increasing achievable run time
- Analyzed field return testing procedures for bomb release units making process changes to decrease return wait time by 5%

L3Harris, Palm Bay, FL

May 2021 – August 2021

Quality Engineering Intern

- Co-led the development of a pre-assessment kaizen used to construct a questionnaire for use with all L3Harris suppliers
- Investigated, identified, and corrected errors in performance data that reduced incorrect supplier ranking by 1.8%
- Co-led the development of a new APQP training package deployed internally to instruct and advance product quality planning

Tru Mension Manufacturing, Melbourne, FL

June 2020 – August 2020

Apprentice

- Mentored under seasoned machinists on CNC's and manual machines to learn best machining practices
- Prepared stock material for CNC operations increasing total shop throughput by 14%

Ace Hardware, Indialantic, FL

March 2018 – July 2020

Floor Associate

- Interacted with 50+ customers daily answering questions to consistently reduce customer wait time
- Built store merchandise increasing the number of ready to sell products by approximately 20% a month

INDEPENDENT PROJECTS

Motorcycle Highway Bar and Pegs

June 2020 – August 2020

- Fabricated a bar and matching pegs since no commercial solution was offered
- 3D modeled the bar and peg assembly to refine the design before manually machining
- Prevented extensive damage to Vulcan 500 when involved in 60mph low side crash

UAV Photography Business

April 2017 – July 2020

- Started an aerial photography company specializing in real estate projects
- Attained my FAA Part 107 UAS remote pilot license to fly unmanned aerial systems commercially

Electric Longboard

August 2018 – February 2019

- Engineered and constructed a waterproof electric longboard
- Coded electric speed controllers to drive a pair of 3250W brushless electric motors achieving a top speed of 40+mph
- Programmed a battery management system for regenerative braking to achieve a range of 23 miles with a 518Wh battery

Laser Wristwatch

March 2018 – April 2018

- Constructed circuit with unique power supply, switch, and a laser diode to serve as a functional laser pointer
- Altered wristwatch to serve as an enclosure emulating the laser wristwatch featured in *Die Another Day*

SKILLS

CSWA (SOLIDWORKS) Certified ●●●●●
Rapid Prototyping ●●●●●

MATLAB Programming ●●●●○
KeyShot ●●●●○

Manual Mill ●●●●○
Manual Lathe ●●●●○