

Joe Kearney

B.S. Mechanical Engineering Spring 2019

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EDUCATION

B.S. Mechanical Engineering
University of Rhode Island
Kingstown, RI
May 2019

GPA: 3.58
Dean's List

Member of Tau Beta Pi
Engineering Honor Society

SKILLS

SolidWorks
Fusion 360
AutoCAD
MATLAB
Abaqus (FEA)
3D Printing
MCU Electronics
Visual Basic
C++
LEAN methodology
Design For Manufacturability

PROFILE

As a highly motivated mechanical engineering student, I'm looking forward to working in a creative and dynamic environment. I'm confident that my strong academic achievements and my demonstrated goal oriented approach will be an asset in my professional career.

EXPERIENCE

ENGINEERING INTERN

Tech-Etch Inc. Plymouth, MA | June 2018 - Jan 2019

Collaborated with multiple manufacturing groups to gain a thorough understanding of the manufacturing processes. Developed fixtures and methods to improve safety, ergonomics, product handling and production yields.

- Designed and developed 3D models and drawings of a thin material handling fixture, built and implemented within two facilities
- Worked as a member of a Six Sigma LEAN team, creating spaghetti diagrams to recommend more efficient process layouts
- Designed and implemented a material handling fixture for medical implant scaffolding resulting in a 17% yield increase
- Collaborated with a manufacturing engineer to develop and execute IQ, OQ and PQ protocols for the introduction of a state-of-the-art material coating machine

TECHNICIAN

Tech-Etch Inc. Plymouth, MA | Sept. 2012 – Sept. 2014

- Tested and measured GEM (Gas Electron Multiplier) foils, a component of particle detectors used in High Energy physics experiments.
- Built high voltage test fixtures for use in a clean room environment
- Used nitrogen gas to condition parts during testing
- Applied high voltage to GEM foils, detecting and quantifying electrical current leakage
- Measured GEM foils for irregularities using computer imaging software

PROJECTS

- Served as the project leader of a team of 4 working with NUWC (Naval Undersea Warfare Center) and PowerDocks, LLC. Designed and optimized a data collection buoy for water quality analysis. Responsibilities included mechanical, electrical, and fluid-mechanic design in order to create a market worthy product. Initiating a prototype build Spring 2019.
- Built an mBED MCU controlled weather station to control/record/display temperature, humidity and pressure
- Designed and tested a 3D printed electronic device to aid communication for people who are both blind and deaf