

Daniel W. Prestridge

904-945-8820

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Newberry, FL

EDUCATION:

Bachelor of Science in Mechanical Engineering, University of Florida, Gainesville, FL - GPA: 3.69/4.0

December 2020

CLEARANCES HELD: **SECRET** and **TOP SECRET**. Last clearance lapsed 2015.

SOFTWARE SKILLS: Solidworks, Matlab, Microsoft Office, Finite Element Analysis Programs, Catia, Creo, NX

ADDITIONAL SKILLS: Machining, 3D printing, Reverse engineering, CAD/CAM

MILITARY/DOD EXPERIENCE:

Electronics Technician, US Navy - USS Cowpens CG63

September 2004-August 2006

- Certification from U.S. Navy Advanced Electronics Field School.
- Performed technical troubleshooting for maintenance and repair of nautical electronic communication, navigation, and detection systems with a specialization in Identification Friend or Foe equipment (IFF).
- Operated various specialized diagnostic tools for troubleshooting and maintenance of mission-critical systems.
- Interpreted schematic block diagrams and technical manuals in performing maintenance and repair tasks.
- Supervision and Delegation of mission essential tasks to shipmates to complete objectives.
- Discharged with Honorable conditions.

Electronics Technician, VT Group

December 2006-February 2013

- Team leader for various retrofits of advanced radar and communication systems on numerous ships, submarines, and shore installations for increased combat preparedness.

ENGINEERING EXPERIENCE:

Senior Design Teaching Assistant, UF - Herbert Wertheim College of Engineering

May 2020-Current

- Collaborated with FEA industry representatives to incorporate Ansys FEM suite for class to iterate and analyze designs.
- Mentoring student team of seven from conception to presentation of autonomous bioreactor for growth of their design process.

Mechanical Engineer, UF - Center for Intelligent Machines and Robotics

May 2019-Current

- Project Lead for autonomous vehicle build on development of perception testbed using LIDAR, GPS, and IMU data.
- Designed affordable small platform drive by wire control for participants with limited mobility.
- Head coordinator and operator on subtractive manufacturing to teach junior students DFM and DFA practices.

Mechanical Engineer, UF - Powell Family Structures Lab: Hurricane Research Center

May 2017-May 2019

- Oversaw projects in the wind tunnel for analysis of large structure behavior of subscale models to avoid full scale cost.
- Retrofitted and developed maintenance plans for mobile wind data collection towers that were successfully deployed at hurricane Harvey, Irma, and Michael to re-evaluate building safety codes.
- Designed and produced new power distribution system which extended the battery life of the tower equipment from 18 hours to three weeks and allowing for more devices to run onboard.
- Created, composed schematics, and worked with machine shop technicians to produce electromagnetic clamping system which is currently in use for the new multimillion-dollar 320 independent fan addition to the boundary layer wind tunnel.

Research Assistant, UF - J. Crayton Pruitt Family Department of Biomedical Engineering

May 2016-August 2016

- Researched response characterization of magnetic nanoparticles for imaging (MPI) and cancer elimination.
- Created and presented magnetic relaxation findings in presentation at BMES Conference in Minneapolis, MN.

Mathematics Tutor, Santa Fe College - Collegiate Veteran Services Center

August 2015-December 2016

- Tutored 160+ students in mathematics from College Algebra through Calculus 3.
- Mentored 80+ incoming veterans for transition guidance into the STEM field.

RELEVANT AFFILIATIONS:

- **First Robotics Competition** - Lead Mechanical, Electrical, and CAD Mentor of Team 4118 (582 Volunteer hours since 2018)
- **Tau Beta Pi Honor Society** - Officer - Coordinator Fundamentals of Engineering Exam
- **Collegiate Veterans Society**
- **American Society of Mechanical Engineers**