


Randy Deinlein

Mechanical Engineer

Sustainability Enthusiast

Veteran USAF

 RandyDeinlein@gmail.com

 443-839-8497

 Alexandria, VA

 [Website](#)

 [LinkedIn](#)

EDUCATION

Mechanical Engineering, Bachelors

University of Maryland, Baltimore County 2019
Entrepreneur Minor, Honors College,
3.68 GPA, Grand Challenge Scholar, Tau Beta Pi

General Studies, Associates

Community College of Baltimore County 2016
Honors College, 3.74 GPA

Automotive Technology, Associates

Lincoln College of Technology 2012
3.71 GPA

STRENGTHS

Flexibility Team Oriented
Proactive Competent
Creativity / Design CAD

CERTIFICATIONS

- Completed CATIA V5 learning course on LinkedIn
- Completed Solidworks 2019 Essential Training on LinkedIn
- Certified (previously) ASE A Series Automotive Service Technician
- Certified CRLA Tutor Level 1
- Completed CAN Basics training course

SUMMARY

I can bring innovation, organization, and efficiency to any manufacturing or engineering field by use of creativity, over-communication, completely understanding the bottlenecks, and managing people to feel more appreciated, valued, and productive.

PHILOSOPHY

“Always leave something better than you found it”

ENGINEERING EXPERIENCE

Patent Examiner

June 2020 – Present

[United States Patent and Trade Office](#) – Department of Commerce

- Examine applications for patents in latches and locks to determine if they meet all laws and criteria set forth by the U.S.C. 35
- Prepares prosecution regarding allowing or rejecting claims of application

System Engineer

March 2020 – September 2020

[NAVSEA/Carderock](#) – The Navy’s experts for maritime technology

- Coordinated management of government contracts worth over \$12.3M using principles of management and organizational skills
- Advised for 100+ products made of composites, metals, and plastics as well as methods utilized for modeling, assembling, or manufacturing product
- Provided oversight for development of a \$274.4M autonomous vehicle
- Approved 250+ 3D CAD models

Test Engineer Intern

May 2019 – August 2019

[Textron](#) – Conglomerate multi-industry company

- Led 2 testing operations of high voltage equipment for emerging autonomous technology

Mech. Engineer Intern

June 2018 – August 2018

[Air Techniques International](#) – Biological threat detection and military respirator testing products for government, military, and commercial organizations worldwide

- Managed product development (dfm) and assemblies using GD&T with manufacturers in optimizing craftsmanship
- Executed ERP software to manage BOM and part development with suppliers
- Designed and 3D printed 5+ components critical to product delivery using AutoCAD Inventor or Solidworks
- Managed 3D printing lab with 3 printers using PLA plastic

Mech. Engineer Intern

March 2016 – August 2016

[Jovian Concepts](#)

- Designed and 3D printed electronic tablet box customized for a one-of-a-kind tablet using Solidworks


Randy Deinlein

Mechanical Engineer

Sustainability Enthusiast

Veteran USAF

 RandyDeinlein@gmail.com

 443-839-8497

 Alexandria, VA

 [Website](#)

 [LinkedIn](#)

OTHER EXPERIENCE

Teaching Fellow

August 2018 – December 2018

[University of Maryland, Baltimore County: Mechanical Engineering: Mechanics of Materials](#)

- Led 10+ classrooms sessions in applying principles of mechanics of materials including structural free body diagrams, statics, deformation, and stress-strain relationships
- Developed 10+ training materials (presentation, exercise. etc.)
- Utilized proactive, problem solving, written and verbal communication skills to engage with 40+ students

Physics Tutor

August 2017 – December 2017

[University of Maryland, Baltimore County: Academic Success Center](#)

- Mentored cohesive teams of 3-4 students in solving physics disciplines including dynamics and fluid dynamics, and using correct calculations

Transmission Assembly Line

Floor Worker

April 2014 – July 2014

[Allison \(GM\) Transmissions Inc. – Premier Transmission Manufacturer](#)

- Inspected and assembled 2000+ sub assembly parts to a transmission on assembly line

Master ASE Automotive Technician

May 2009 – April 2014

[Various Companies](#)

- Previously certified in Engine Repair, Automatic Transmission/Transaxle, Manual Drivetrain & Axles, Suspension and Steering, Brakes, Electrical/Electronic Systems, Heating and Air Conditioning, and Engine Performance
- Experienced using machine shop skills including basic fabrication and methods
- Interpreted 500+ electrical schematics and mechanical drawings

Electronic Technician

January 2009 – April 2010

[Digital Receiver Technologies Inc.- Software Defined Radio \(SDR\) based technical solutions](#)
[ASC \(Xerox\) Speed Cameras – Design, Build, Install, and Maintain State Speed Cameras](#)

- Read and interpret wiring diagrams and schematics for troubleshooting DC or AC
- Assembled and tested 100+ products for performance including battery pack power supplies
- Used frequency and voltage generators daily, as well as oscilloscopes

F-16 Avionics Technician

March 2004 – September 2008

[United States Air Force](#)

- Trained and managed 10+ new journeyman in various aspects of aviation electrical systems and principles including electrical theory
- Obtained 100% Quality Assurance Inspection Pass Rate over Air Force Career
- Diagnose and repair electronic parts and components included in an F-16 aircraft
- Performed 100+ different preventative maintenance procedures

PROUDEST OF



Pushing myself to perform in uncomfortable scenarios

Courage to be honest with others and value feedback



My ability to **hold myself accountable** for all I do

How far I've come



ACCOMPLISHMENTS

- Board Member for National Academy of Engineers Grand Challenges Alumni Association
- Competed in a new toaster design 3D modeling competition
- Citizens' Climate Lobby Member
- Competed in Ventilator Design challenge creating a fully functional ventilator from off the shelf components
- Competed in 5 design competitions in 2020
- Speaker at University orientation in front of over 300 students
- Personally designed a new keyboard layout as seen on my website and 3D printed a production model of it