

# Keith T. Blackstock

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## EDUCATION

### **Worcester Polytechnic Institute** | Worcester MA *B.S Aerospace Engineering (2020)*

AUG 2016 - MAY 2020

## SKILLS

MBSE ..  
CAD ....  
CAE ...  
CFD ..  
CNC Machining ..  
Additive Manufacturing ....  
Micro Aerial Vehicles .....

## WORK EXPERIENCE

### **SEACORP** | Middletown, RI — *Mechanical Engineer*

SEP 2023 - Present

Supported the development of Navy submarine TEMPALTs (temporary alterations) by drafting CAD models/assemblies of various inboard tactical interfaces and their mechanical housings. Ran structural calculations for load-bearing components in said designs.

## Certifications

TS Clearance

### **Sherpa 6** | Natick, MA — *Systems Engineer*

JUN 2022 - AUG 2023

Supported the integration of ATAK tactical software plugins onto EUDs, laptops, and virtual machines. Supported software demonstrations at Natick Soldier Systems Center. Established and updated virtual images for tactical edge computing applications.

## PROGRAMMING LANGUAGES

Javascript ..

MATLAB ...

Python ·

SysML ·

### **Sikorsky Aircraft** | Stratford, CT — *Cockpit Architecture and Design Systems Engineer*

OCT 2020 - MAY 2022

Drafted technical requirements for avionics components within Future Attack Reconnaissance Aircraft (FARA) cockpit. Participated in MBSE integration efforts within existing system architecture and document structures. Conducted technical trade studies on supplier hardware.

## **Hutchinson Aerospace & Industry | Hopkinton, MA — Shock & Vibration Engineer**

JUN 2018 - AUG 2018

(INTERNSHIP)

Conducted shock and vibration attenuation tests for damping components used in aeronautical, automotive, and locomotive industries. Verified that said components met desired natural frequency and transmissibility criterion.

### **SOFTWARE EXPERIENCE**

#### **Java**

- Visual Studio

#### **Cloud Computing**

- VMware
- VirtualBox

#### **Systems Architecture**

- DOORS
- JIRA

#### **Computational Fluid Dynamics**

- XFLR5
- SimScale
- Onscale

#### **Parametric CAD**

- SolidWorks
- Fusion 360
- Onshape

#### **Computer Aided Engineering**

- MATLAB
- MathCAD