

CS PROFILE

- Object oriented programming (OOP) experience in Java and C++
- Data structures course completed in C++
- Basic experience with Python, ARM Assembly, Raspberry Pi, Arduino
- Relational database experience using MySQL and AWS
- NoSQL database experience using MongoDB and Robo3T
- Database application development in Java
- Version control/concurrent development through GitHub
- Current and upcoming coursework: computer architecture, programming languages, algorithms, software engineering, cloud computing, operating systems, etc.

ENGINEERING PROFILE

- Mechanical design, modeling, assembly, and finite element analysis (FEA) in CATIA
- Experienced with drafting and geometric dimensioning and tolerancing (GD&T)
- Performed Design of Experiments for statistical analysis of production processes
- Applied design for manufacture and assembly to improve production efficiency (DFM, DFA, DFX)
- Basic experience with simple electronics and PLC ladder logic
- Knowledgeable in aerospace mechanical testing procedures under controlled environmental conditions
- Experienced with rapid prototyping technologies, 3D printing, and prototype machining
- Demonstrated skills in 5-axis mill programming, multi-axis mill-turn, lathe, and high-speed milling
- Used composite processing methods for the fabrication of carbon fiber and fiberglass structures

SOFTWARE

VSCode
IntelliJ
MySQL
Oracle VM
Robo3T
MS Excel
MS Word
MS Project
CATIA V5
Solidworks
Esprit CAM
Edgecam

LANGUAGES

Java
C++
Python

WEBSITE

kylewhite.co

LinkedIn

bit.ly/KWLIPRF

PROFESSIONAL EXPERIENCE

AVTECHTYEE | Manufacturing Engineer 2

June 2017 – April 2020

- Designed, owned, and manufactured production tooling using CATIA and Edgecam
- Multi-axis mill, turn, mill-turn, and horizontal CNC programming and automation in Edgecam and Esprit
- Manufacturing engineering and process development for new product introduction
- Maintained ongoing manufacturing process planning, documentation, and work instructions
- Continuous improvement of production plans, processes, tooling, equipment, and layout
- Shop floor support with CNC machining, assembly, inspection, drawing interpretation, etc.
- Corrective actions and root cause analysis applied towards systemic nonconformity issues

HEXCEL CORPORATION | Manufacturing Engineering Intern

June 2015 – June 2016

- Designed production tooling in CATIA using solid, surface, and composite modeling techniques
- Created 5-axis CNC simulation models using CATIA and Vericut
- 5-axis machining and forming of honeycomb structures of various compositions (aramid, fiberglass, aluminum)

WWU FORMULA SAE | Suspension Lead Engineer and Lead CNC Machinist

September 2012 – June 2016

- Designed, analyzed, and manufactured critical load-bearing suspension components
- Full design cycle experience from concept to design, build, test, and iterative design

EDUCATION

WESTERN WASHINGTON UNIVERSITY | B.S. in Manufacturing Engineering

WWU Outstanding Graduate – June 2016

BELLEVUE COLLEGE | B.S. in Computer Science – Currently Enrolled

Graduation Date – June 2022