

# ALEC OHANESIAN

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## PROFESSIONAL SUMMARY

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**Education:** University of California Los Angeles - MBA (In Progress) | California Polytechnic State University San Luis Obispo - B.S. in Manufacturing Engineering

**Software/Systems:** Siemens NX CAD/CAM, SolidWorks, Mastercam, Vericut Simulation, Teamcenter PLM, SAP ERP, SQL, VBA  
**Prototyping and Manufacturing:** CNC machining, fixture/tooling design, rapid prototyping (3D printing, fabrication fundamentals)

## EXPERIENCE

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### Avalon Aero

Founder

December 2025–Present

- Co-founded Avalon Aero LLC and led development of a swashplateless coaxial UAS targeting a 4:1 payload-to-weight ratio as a qualifier in the DARPA LIFT Challenge
- Designed novel cyclic pitch control system eliminating traditional swashplate mechanisms via inclined lag-pitch coupling hinges and electronic motor torque modulation, reducing system weight by 8–12lbs compared to conventional rotor head designs
- Managed full-cycle aerospace development including carbon fiber structural design, motor/ESC specification, FAA certification coordination, and technical partnership negotiations with propulsion and components suppliers under a 6-month build-to-fly timeline

### Karman Space & Defense

Production Manager

May 2026–Present

- Led aerospace manufacturing operations across a 40,000 sq ft production facility, directing 75 employees across three shifts to meet aggressive schedule and quality commitments for space and defense programs.
- Optimized production flow across high-mix aerospace manufacturing through bottleneck identification, labor balancing, and structured shift communication including daily tier meetings and visual management systems.
- Improved factory throughput through data-driven operational leadership, deploying ERP and Power BI dashboards to provide real-time visibility into WIP, capacity utilization, labor efficiency, and on-time delivery performance.
- Partnered with Engineering, Quality, Planning, and Supply Chain to disposition production constraints, implement corrective actions, and maintain AS9100 compliance across all manufacturing operations.

### Rolls Royce

Production Leader – Turbines

June 2025–Present

- Led two production departments yielding \$22M in annual output across critical engine programs, establishing and maintaining quality metrics, on-time delivery targets, and performance within 2% of budget
- Managed 14 direct reports responsible for performance reviews, determining priorities, union relations, and conflict resolution
- Drive daily problem solving across machining and inspection operations, achieving 4% increase in productivity
- Developed and implemented automated labor/sales tracking dashboard, enabling real-time visibility into workforce utilization and driving efficiency improvement across three shifts and 40+ team members
- Led cross-functional coordination between production, quality, materials, and engineering to resolve bottlenecks, optimizing the production schedule to reduce equipment idle time by 5% across key product lines within departments.

Manufacturing Engineer – Critically Rotating Parts

August 2024–July 2025

- Authored and executed a Process Verification Audit (PVA) to validate inspection processes against Rolls-Royce internal standards and regulatory compliance requirements, resulting in rework reduction.
- Justified and led deployment of BLUM laser measurement on Makino A99s, automating tool offset correction, broken tool detection, spindle health monitoring. System reduced manual touch points and improved first-pass yield on critical components.

## TECHNICAL PROJECTS

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### **Production Metric Dashboard – Rolls Royce**

2025

- Developed and implemented live dashboard tracking productivity, sales, labor hours, WIP, and MPS using SAP to Power Bi workflow.

### **Capstone Project– Edwards Lifesciences**

2023

- Worked in a cross-functional team designing a fixture to address ergonomic concerns and decrease cycle time of heart valve assembly. Fixtures were implemented across multiple business units and facilities.

### **Automated Eye Tracking System – Personal Project**

2023

- Programmed and configured a PLC to track eye movement and react in real time. Fabricated and assembled project hardware.

## LEADERSHIP & INVOLVEMENT

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YNG – YPO Next Generation – Member

2026

Eagle Scout – Boy Scouts of America

2019

Alumni STEM Advisory Board – St. Margarets Episcopal School

2023