

C&I Mechanical Engineer

Roy Foor

Professional summary

Experienced Mechanical Engineer specializing in Controls & Instrumentation (C&I) with over 10 years of expertise in designing, developing, and maintaining complex systems in the manufacturing and aerospace industries. Adept at implementing cost-effective solutions, enhancing system reliability, and ensuring compliance with industry standards.

Experience

Senior Mechanical Engineer, C&I

March 2018 - Now

Boeing / United States, Everett, WA

- Lead the design and implementation of advanced control systems for aerospace manufacturing processes.
- Develop and program PLC and HMI systems for various manufacturing applications, ensuring seamless integration with existing infrastructure.
- Conduct thorough root cause analysis of system failures, implementing corrective actions to improve system reliability and prevent future occurrences.
- Collaborate with cross-functional teams to design and deploy data acquisition systems for real-time monitoring and analysis of production data.

Mechanical Engineer

May 2016 - February 2018

PACCAR, Inc. / United States, Bellevue, WA

- Developed and executed test plans for new control systems, validating functionality and compliance with industry standards.
- Implemented cost-saving measures by optimizing control system designs and streamlining maintenance procedures.
- Provided technical support and training to production staff on the operation and maintenance of control systems.

Junior Mechanical Engineer

May 2014 - April 2016

PACCAR, Inc. / United States, Bellevue, WA

- Assisted in the design and development of precision measurement instruments and control systems for various industrial applications.
- Conducted testing and calibration of instrumentation to ensure accuracy and reliability.
- Supported the development of technical documentation, including user manuals and maintenance guides.
- Collaborated with the R&D team to innovate new solutions for enhanced measurement accuracy and system performance.

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United States, Everett, WA

Education


Bachelor of Science in Mechanical Engineering


2010 - 2014


University of Washington

United States, Seattle, WA

Skills

PLC Programming (Allen-Bradley, Siemens) 

HMI Development (Wonderware, Ignition) 


CAD Software (AutoCAD, SolidWorks) 


SCADA Systems 

MATLAB/Simulink 

LabVIEW 

Robotics 

CNC programming 

Finite Element Analysis (FEA) 

Thermodynamics 

Pneumatics 