

# Fionnuala Furer

Mechanical Field Engineer

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## EDUCATION

**Bachelor of Science in Mechanical Engineering at North Carolina State University, Raleigh, NC**

Sep 2018 - May 2022

Relevant Coursework: Engineering Mechanics, Thermodynamics, Fluid Mechanics, Heat Transfer, Machine Design, Control Systems, Materials Science, Manufacturing Processes, and Engineering Economics.

## LINKS

[linkedin.com/in/fionnualafurer](https://www.linkedin.com/in/fionnualafurer)

## SKILLS

AutoCAD

SolidWorks

Finite Element Analysis

MATLAB

Pneumatics

Hydraulics

Programmable Logic Controllers

## LANGUAGES

English

Japanese

## HOBBIES

Building and repairing mechanical devices  
Robotics and automation projects

## PROFILE

Mechanical Field Engineer with 1 year of experience in providing technical support, troubleshooting, and maintenance of mechanical systems. Adept at implementing innovative solutions to optimize equipment performance, reduce downtime, and ensure adherence to industry standards. Strong analytical and problem-solving skills, coupled with excellent communication and team collaboration abilities. Committed to continuous learning and professional development in the field of mechanical engineering.

## EMPLOYMENT HISTORY

### Mechanical Field Engineer at Fluor Corporation, NC

Feb 2023 - Present

- Successfully completed a \$50 million project for a major client, achieving a 98% on-time completion rate and increasing overall project efficiency by 15%.
- Managed a team of 25 engineers and technicians in the design, installation, and maintenance of advanced mechanical systems, resulting in a 10% reduction in downtime and a 20% increase in productivity.
- Developed and implemented a comprehensive preventive maintenance program, reducing equipment failures by 30% and extending the life of machinery by an average of two years.
- Streamlined the procurement process for spare parts and equipment, resulting in a 25% reduction in lead times and a 15% cost savings for the company.

### Associate Mechanical Field Engineer at Jacobs Engineering Group, NC

Jul 2022 - Dec 2022

- Successfully managed the installation and commissioning of a \$5 million HVAC system for a large commercial building, resulting in a 20% improvement in energy efficiency and a 15% reduction in operating costs.
- Completed the design and analysis of a complex piping system for a major industrial client, leading to a 10% increase in overall system performance and a 5% reduction in maintenance costs.
- Led a team of junior engineers in the development and implementation of a predictive maintenance program for a large manufacturing facility, reducing equipment downtime by 25% and saving the client over \$500,000 annually in maintenance costs.
- Identified and resolved critical design flaws in a high-pressure steam system, averting potential catastrophic failure and preventing an estimated \$2 million in damages and lost production.

## CERTIFICATES

### Certified Plant Engineer (CPE)

Sep 2021

### Certified Reliability Engineer (CRE)

Mar 2020