JANI O'CONNELL

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PROFILE

I am a hardworking, honest, and dependable individual with a strong ability to adapt to change. With a problem-solving mindset and commitment to continuous learning, I strive to improve efficiency and reduce production costs. Passionate about collaboration, I excel in tackling challenges that drive innovation and professional growth.

LANGUAGES

English – Native / Mother Tongue
Finnish – Limited Working Proficiency
French – Elementary Proficiency

SKILLS

Project & Time Management
Complex Problem Solving
Engineering Standards
Logical Thinking
Team Collaboration
Adept with CAD and CAM
Proficient in MS Office

HOBBIES

Embedded Systems
Game Development
Frontend Web Development
FDM Printing
Bouldering

EDUCATION

Tampere University of Applied Sciences
BSc, Software Engineering
September 2023 – Ongoing
Expected Graduation: May 2027

University College Dublin
BSc, Mechanical Engineering (Incomplete)
September 2017 – May 2020
Cut short due to global pandemic

Relevant Courses:

- Mobile App Development
- Full Stack Web Development
- Cloud Technologies with AWS
- Graphical User Interfaces
- Network Technologies
- Cybersecurity

WORK EXPERIENCE

CCNA: Introduction to Networks, Cisco
February 2025

AI Data Trainer, Freelance *Remote*
March 2024 - Ongoing
- Crafting programming-related prompts for AI model training.
- Evaluating responses and editing for quality and accuracy improvement.

AWS Academy Cloud Foundations, AWS Academy Graduate
March 2024

CAD Technician and CNC Operator, Gaelite Signs *Dublin, Ireland*
January 2023 – August 2023
- Crafted CAD drawings and G codes from specific project notes, while never missing a deadline.
- Consulted with architects and engineers, customers, and vendors regarding project details.

PERSONAL PROJECTS

3D Scanner
Developed a 3D scanner using an Arduino Nano with ultrasonic and IR sensors to map points on a rotating object. A Python script processes the data, generating a mesh that is smoothed and exported as an STL file.

CNC Milling Machine
Designed and built an XYZ gantry CNC milling machine controlled by an Arduino Uno running the open-source GRBL firmware. Repurposed a drone propeller motor as the spindle, enabling the machine to cut plastics, wood, and aluminum within a 30cm^3 work area.

Voice Controlled Chess Board
Built a chess board that recognizes voice commands and moves pieces accordingly. Captured audio is processed into chess notation, which controls a CoreXY system moving an electromagnet beneath the board. This allows for smooth piece movement with minimal vibration.