## **Matthew Macklin**

Instrumentation & Control Engineering Student | Qualified Electrician

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### **Profile**

Final-semester Bachelor of Engineering Technology (Instrumentation and Control) student at UNITEC, Top Student and Top Project award recipient with an 8.11 GPA.

Hands-on experience integrating PLCs, SCADA, and ERP systems with industrial machinery, supported by a trade background as a electrician.

#### Education

BEngTech (Instrumentation & Control) UNITEC Auckland, Expected 2025

NZ Diploma in Electrical Engineering (L6) UNITEC Auckland, 2024

### **Projects & Research**

- MES–ERP Automation Platform: Developed integration between Siemens PLCs, Ignition SCADA, and Xero APIs, automating production KPIs and invoicing.
- Fluoroscopy Mold Detection: Designed and prototyped UV-excitation imaging/spectrometer system.

#### **Technical Skills**

PLC Programming (Siemens TIA Portal), Ignition SCADA, MySQL, P&ID Interpretation, Microsoft Word etc;

CAD (Fusion360, SolidWorks), Instrumentation & Control, VFDs, Electrical Systems.

### **Relevant Experience**

Technician, RA Jenks 2019

- -Servicing, fault finding and breakdowns on dental equipment
- -Sole charge for autoclave workshop

Electrician & Crane Technician, Crane & Control Services 2019–2022

- Fault finding, installations, and maintenance on cranes and heavy industry equipment.
- Exposure to PLCs, VFDs, automation, and rigging/mechanical systems.

Electrician (Contract), Various Sites 2023

- Installation and maintenance at automated sorting and pharmaceutical facilities.

PASS Leader, UNITEC 2023-2025

- Tutored physics and engineering students, supporting peers in technical coursework.

# Certifications

C	Dualified Electrician,	Forklift O	perator's License.	EWP.	, Working at He	ights, First Aid Certifi	ed.