

# Jack McKew

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Dear Sir/Madam

My name is Jack McKew and I am 22 years of age having recently completed my Bachelor of Electrical Engineering in which I received Honours Class II division I. Please find attached my resume. I am a confident, well presented, mature young man and very eager to broaden my skill set in Data Science/Engineering.

Further to this, I am skilled in software development & data science, particularly in Python, in which I currently author, maintain and curate my own personal blog around these topics, which can be found at: [jmckew.com](http://jmckew.com).

At my current employer, I have saved approximately 400 hours of working time by automating tasks for a multidisciplinary team. I also have pioneered and lead an internal Australia & New Zealand wide weekly training session on Excel to over 100 multidisciplinary professionals, in which I demonstrate how to utilise Excel and other programs to enhance project quality and improve team efficiencies.

I believe I would be a suitable fit for the position particularly due to my experience and passion for control systems, computer networking, software development, data science, & delivering quality projects on time.

I would be happy to attend an interview at any time to discuss my application further.

Kind Regards,

Jack McKew

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## WORK HISTORY

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Current	<b>Graduate Electrical Engineer at AECOM (since Jan 2019)</b> Undergraduate from 2017-2018 Working in a multidisciplinary team to produce electrical designs in retail, commercial, industrial, water, defence projects & develop automated software solutions. Projects involved lighting design, reticulation design, switchboard/switchroom design, communication network design, lightning protection system design, PLC network design, electrical drafting and site inspections.
2016-2018	<b>Undergraduate Electrical Engineer at Hunter H2O</b> Casual working on PLC programming, PLC systems, radio networks, SCADA systems, cable schedules and electrical protection schemes.
2014-2018	<b>Timber Expert &amp; Forklift Operator at BUNNINGS</b> Casual as a timber expert detailing advice to customers on building materials & techniques and operating forklifts in a high risk environment. Retail experience as a cashier, people greeter and in store loss prevention security.
2015	<b>Electrician at DOWNER EDI</b> Work experience as an industrial electrician, contracted by Hunter H2O to install switchboards at various water treatment plants.

## EDUCATION

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2015-2018	<b>Bachelor of Electrical Engineering (Honours), University of Newcastle</b>
2014	<b>High School Certificate, Belmont High School</b>

## CERTIFICATES

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AUGUST 2019	<b>Mental Health First Aider</b>
JULY 2019	<b>ICS/SCADA Cyber Security Udemy</b>
MARCH 2017	<b>Cardiopulmonary Resuscitation (HLTAID001)</b> <b>Low Voltage Rescue UETTDRRF06B</b> <b>Telemetry Certified Expert Scheider Electric</b>
NOVEMBER 2015	<b>High Risk Work License (Forklift Trucks) HRW726355</b>

## COMPUTER SKILLS

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Basic Knowledge: UNITY PRO, ISAGRAF, SCADAPACK WORKBENCH, VIEWX, VBA, PHP, SQL, HTML, JAVASCRIPT, LINUX, UBUNTU, SYSTEM VERILOG, VIJEO DESIGNER, AGI-32, POWERCAD, UNITY, AR, VR, C++, AUTOCAD, WORDPRESS, REVIT

Intermediate Knowledge: PYTHON, NUMPY, PANDAS, C, Visio, Excel, Word, PowerPoint

## LANGUAGES

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English: NATIVE LANGUAGE  
Italian: INTERMEDIATE (READING, WRITING); BASIC (SPEAKING)



## PROJECT HISTORY

HUNTER WATER 2018-Current	<b>Lemon Tree Passage &amp; Tanilba Bay PLC Upgrade</b> Analysis of existing site PLC infrastructure & process documentation, development of cutover plans to maintain plant uptime, PLC rack layouts, panel general arrangements and electrical drafting.
DEPARTMENT OF DEFENCE 2017-Current	<b>Williamstown RAAF Base</b> Electrical and communications design review, lighting review, site inspections, lightning protection system review and conduit capacity assessments.
UNIVERSITY OF NEWCASTLE 2018-Current	<b>Honeysuckle Campus Building 1A</b> Electrical and communications design, lighting design, cable tray routing, co-ordination with other disciplines, Revit drafting and lightning protection system design.
AECOM 2018-Current	<b>Data Analysis Automation Tools</b> Developed software in Python to automate workflows for simulation software saving 10 hours per use, analysis with minute interval data for up to 20 years, distributed software to multiple users, maintained documentation.
DEPARTMENT OF DEFENCE 2017-2018	<b>New Air Combat Capabilities</b> Communications design review, fibre budget calculations and site inspections.
ORICA AMMONIUM PLANT 2017-2018	<b>Cooling Tower Commissioning</b> Commissioning of new cooling tower at Orica Kooragang.
STOCKLAND 2017-2018	<b>Greenhills Extension</b> Lighting design review and shop drawing reviews.
UNIVERSITY OF NEWCASTLE 2017-2018	<b>Chemistry Building Refurbishment</b> Lighting design review and shop drawing reviews.
HUNTER WATER 2017-2018	<b>Disinfection Optimisation Strategy</b> Analysis of existing site electrical infrastructure. Concept design of new switchboards, cable routes and drive arrangement, control I/O and SCADA I/O. Feasibility assessment for site upgrades.
HUNTER WATER 2017-2018	<b>Dungog Electrical Upgrade</b> Analysis of existing site electrical infrastructure. Concept design of new switchboards, cable routes and drive arrangement for site redundancy between switchboards.
WATERNSW 2016-2017	<b>iSMART</b> Design and development of PLC systems, HMI systems, SCADA systems and telemetry systems. Development of sites such as dams, weirs, regulators and pumping stations. FAT and SAT of Site, PLC, SCADA and HMI functionality.
WARREN SHIRE COUNCIL 2016-2017	<b>SCADA Upgrade</b> Upgrade from Citect SCADA to ClearSCADA. Design and development of SCADA and telemetry system. Designed to function with existing PLC and HMI infrastructure.