**Noel Reid**

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**Professional Summary**

* 20 years of maintenance experience, both in Ireland and the United States.
* Extensive equipment installation and support experience, both electrical and mechanical and automation.
* Experience in fault finding in PLC systems.
* Excellent knowledge of pneumatics, RF, robotics, electronics, vacuum systems, chemical pumps and mixers.
* Supported installation and qualification of 16+ Endura Tools plasma vapour deposition tools.
* Supported de-install and decontamination of 12+ Copper Seed Barrier Endura Tools.
* Supported de-install of 4 Chemical Mechanical Planarization tools
* Strong leadership skills. Supervised teams of 6 technical staff.
* Install and qualification of 2 Chemical Mechanical Planarization tools
* PM team lead reporting directly to engineering and production managers.
* Received an award for implementation of new shift passdown system and corrective maintenance tracking system.
* Team lead as a field service in the United States.

**Qualifications**

2020 MTU Automation and Instrumentation

2014 Intel Project Management Fundamentals

2014 Flir Thermography certification

2004 DIT L6 National Craft Certificate with merit as a Maintenance Fitter/Technician

2002 FAS L3 Certificate in Computer Aided Draughting & Design

2003 DIT L3 Certificate in Mechanical Power Transmission Systems Technology

2003 DIT L3 Certificate in Maintenance Organisation

**Career History**

**May 2022-Present Applied Materials Customer Engineer**

* Install and commissioning of Scanning electron microscopes (SEM).
* Full instillation from docking to up to production and handover to customer.
* Full training in Israel and install in F34 Ireland.
* Electrical hook up and calibrations.
* Robot trach and replacement
* Mostly working solo in tier 2 of the project.

**July 2021-May 2022 Daifuku Automation Ireland Install/commissioning Engineer**

* Install and commission engineer with Daifuku America started July to present working on the new AMHS system going into Intel Ireland. Full install and robot teach and troubleshooting of the automated material handling system.
* All electronic and mechanical troubleshooting.
* Commissioning and dealing with the customer on a daily basis to ensure a safe working environment and project updates
* Continues improvement and upgrade testing to ensure a more efficient reliable product which currently has a grater then 90% uptime.
* Maintenance of the overhead track as well a proximity sensors with feedback to a zone control unit which located the position of each vehicle with a total of grater then 120 cars.
* Project lead for upgrade of 20 cars from old redundant stock leading to a company saving to the customer of grater then $250,000
* Lead on a new design vehicle using accelerometer technology and design to save damage to fully commissioned cars.

**Dec 2020-July 2021 Becton Dickinson Dun Laoghaire Engineering Maintenance Technician**

* Full maintenance of highly automated high speed assembly and packaging line for medical pen needles producing over a million units per 24hr period.
* Troubleshooting complex PLC, pneumatic, vacuum systems, robotics and various servo motion control systems.
* Install of various upgrades and continuous improvement projects.
* Lead for cross shift maintenance team review board reviewing unscheduled down time of various parts of the line.
* Advanced knowledge of robot fault-finding and troubleshooting.
* General maintenance and of Allen Bradley PLC system.
* Troubleshooting ATS SuperTrak Conveyance using the latest encoder feedback systems for high volume manufacturing.
* Various sensors including ring, photo, proximity and lid tilt and pressure/flow sensors
* Working knowledge of SAP maintenance systems.

**Nov 2017 – Aug 2020 Westerwood Global Malta/Fishkill NY Lead Field Service Engineer**

* Field service engineer team lead contracted into Global Foundries in both Malta and Fishkill NY reporting directly to North American manager.
* Supported the sustaining of both PVD(Plasma Vapour Deposition) and CVD (Chemical Vapour Deposition) toolset working on the Endura,Centura and producer platform. This involved all mechanical and electrical aspects of the tool form pneumatics, robotics, vast array of electrics and signal systems.
* Advanced L3 troubleshooting on the Endura and Centura platform troubleshooting servo motors and pneumatic lifters to robot bearing rebuilds and actuator troubleshooting. Also troubleshooting of the D-Net/PLC systems.
* Working on green to green and availability projects.
* Worked as part of an award winning tool team for the CVD/PVD module in Global Foundries Malta NY. And presented my maintenance improvement project to level 2 management.
* Overseeing tool install and upgrade projects.
* Working as part of a maintenance planning team meeting each day.
* De install of 5 CMP Tools.
* Install of CMP (Chemical Mechanical Planarization) tools.
* Worked on all aspects of the Endura/Centura tools from electrical, mechanical, pneumatics, robotics, software, mass flow controllers and radio frequency. Both troubleshooting and preventative maintenance.
* PM Planning and procedure writing including detailed photos and videos.
* Working with facilities engineering groups to deliver install supplies and de-install shutdowns.

**Jan 2005 – Nov 2017 Intel Corporation, Ireland Maintenance Technician**

* Worked in Thin Films/PVD Dept. Maintained high density plasma and copper seed barrier tool sets.
* Supported planned, unscheduled and unplanned maintenance, both electrical and mechanical. Working on pumps, DC generator racks, RF generators/matching system, pneumatic and robotic systems.
* Seconded to Intel (US), F11X Rio Rancho (Nov 10 - Dec 12). Member of copper seed barrier and corrective maintenance teams overseeing 23 tools. Supported F11X ramp up. Worked on AMAT Endura Toolset.
* Involved in installation and qualification of 16+ Endura tools electrical and mechanical install.
* Involved in de-installation and decontamination of 12+ CSB Endura Tools.
* Part of PM improvement team that reduced machine down time during PM’s by over 50%.
* Set up and chaired monthly global factories meeting to share unscheduled machine downtime learnings.
* Designed 2 jigs for the Endura tool making it more ergonomically friendly one support jig for robot maintenance and one for parts rebuilds. Recognition from Factory Manager.
* Held post Area Coordinator (5 years) and PM Team Lead (3 years). Coordinated and supervised teams of six technicians.
* Trained four technicians from zero experience to very high level reciving accolade from upper management.
* Reviewed and interpreted operating tool data using a flight data type of data recorder which utilizes various sensors on the tool recording time, vibrations noise etc.
* Champion for software of tool legacy graphical user interface GUI, to improve failure rates.
* Chaired SWAT tactical teams to fault find and troubleshoot technical issues.
* Helped introduce use of vibration monitoring and camera monitoring equipment to identify faults.
* Introduced database with previous unscheduled occurrences on equipment, a reference for future faults.
* Lead Maintenance Planner. Liaised with engineering and manufacturing to schedule down time.
* chaired a Failure Analysis Team. Worked with supplier to cut frequency of unplanned maintenance and early failure of components. Setting up a rebuild loop in the process for failed components e.g. pumps, generators and robots.

**Dec 2000 – Jan 2005 Premier Periclase Ltd (CRH Group) Maintenance Fitter/Technician**

* Completed my maintenance Fitting/Technician Apprenticeship.
* Maintained entire sinter magnesium producing plant.
* Involved electrical and mechanical tasks - wired large electrical distribution boards and drive motors, assembled drive gear boxes, and replaced large water and chemical pumps/mixers
* Maintained large transport belts, both mechanical and electrical failure including three phase motors couplers and gearboxes.
* Collected and analysed data via vibration monitoring equipment for large turbines. Helped prevent failure of turbine blades or bearings.
* Worked on heavy diesel plant, including Caterpillar. Serviced and rebuilt D9 fleet.
* Serviced and repaired quarry equipment and cranes including hydraulic rock breakers, crushers, screeners, mills, titan cranes and dock cranes.
* Completed block release programme to receive my formal qualification via Dublin Institute of Technology.
* Maintenance both corrective and proactive of high pressure steam boilers and complex plumbing systems
* Maintenance of large sea water sump pumps.

**Additional Information**

* Other Training: CPR, Manual Handling, Working at Heights, Confined Space. Safe Pass
* Interests: Building computers, flying, kayaking, hiking, climbing, outdoor activity.
* Flying: Completing private pilot's licence. Fly a single engine piston aircraft, intention to fly multi engine.
* Kayaking: Organising Committee Member at my club. Elevated to one of most recognized clubs in the north east

**References upon request**