

## CHARLES MOON

<b>Occupation</b>	<b>FREELANCE TRAINER</b>
<b>Age</b>	56
<b>Gender</b>	Male
<b>Nationality</b>	South African
<b>Ethnic Group</b>	White
<b>Language</b>	Afrikaans, English
<b>Drivers Licence</b>	EB
<b>Desired job location</b>	Gauteng but willing to relocate.
<b>Current Employer</b>	Free Lance trainer- Rockwell, IT- UIT, TUKS
<b>Availability</b>	1 month

### Contact Details

<b>Cell phone</b>	+27 82 804 9582
<b>Tel</b>	+27 12 345 3559
<b>Email</b>	CharlesMoon1959@gmail.com
<b>LinkedIn</b>	<a href="http://www.za.linkedin.com/pub/moon-charles/59/930/828">http://www.za.linkedin.com/pub/moon-charles/59/930/828</a>
<b>Residential Location</b>	Elardus Park, Pretoria, South Africa

### Professional Profile

Automation Specialist with over 20 years' experience analysing data and setting C&I standards. Strong instrumentation and Information Technology skills. Plant experience in automating and designing solutions for operations, planning and managing small projects within the teams and organizing and influencing solutions and methodologies. Recognized for planning and organizing record C&I training at Lonmin (2009) and also developing and implementing software applications for the grinders and raw materials plants at Columbus.

### Education

1986 Vaal Triangle Technikon, Vanderbijlpark <b>National Diploma For Technicians Electrical Engineering LC</b> <i>*Digital Systems (1984)</i>
1977 De Wet Nel Technical High School <b>Grade 12 (Matric)</b> <i>*Distinction in Mathematics (1977)</i>

### Professional Courses / Training

2016	<b>Labview Core 1 and Core 2 (Local)</b>
2014	<b>ControlNet and RSNetWorx Configuration and Troubleshooting (CCP173)</b>
2014	<b>RSLogix5000 Level2:Ladder Logic Programming (Basic) (CCP151)</b>
2013	<b>RSLogix5000 Level1:System Fundamentals (CCP146)</b>
2012	<b>Fundamentals of Project Management - PMBOK Damelin</b>
2011	MS Excel 2010 Intermediate
	<b>MS Excel 2010 Advanced</b>
	<b>Implementing and Managing Windows Server 2008 Hyper-V</b>
2010	<b>General Hirschmann and Network Training</b>
	<b>Wonderware System Platform Part 2 (Historian Application Development Active Factory &amp; Information Server) Training</b>
2009	<b>RSLogix 5000 Level 1: ControlLogix System Fundamentals</b>
	<b>RSLogix 5000 Level 3: ControlLogix Maintenance and Troubleshooting</b>
	<b>Wonderware Intouch Fundamentals of Application Development Training</b>
	<b>Wonderware System Platform Part 1 Training</b>
2005	<b>Loss Control</b>
	<b>Safety Course for Supervisors</b>
2001	<b>MS Excel 97 VBA Course</b>
	<b>InfoPlus.21 V3 Foundation course.</b>
	<b>AspenTech SQLplus Advanced course</b>
	<b>InfoPlus.21 Applications Development Course Version 3.0</b>
2000	<b>Microsoft® Windows 2000 Network and Operating System Essentials</b>
	<b>Implementing Microsoft Windows 2000 Professional and Server</b>

	<b>Supporting MS Win 2000 Professional and Server</b>
1997	<b>Visual C++</b>
1996	<b>Microsoft Access 2.0 Basic</b>
	<b>System Administrator for Microsoft® SQL Server 7.0</b>
	<b>Implementing a Database on Microsoft® SQLServer 7.0</b>
1995	<b>Introduction to Infomet Methodology</b>
	<b>Mastering MFC FUNDAMENTALS USING Microsoft®Visual C++</b>
	<b>System Administrator for Microsoft® SQL Server 6.5</b>
	<b>Sqlplus Introductory Course</b>
1994	<b>Object Orientated Analysis and Design</b>
	<b>Pi-Paq Shell User Training and Eudora Light</b>
1993	<b>Open VMS Introduction</b>
	<b>VMS and RDB for VAX's Courses</b>
	<b>Vaxstation 4000 Owners &amp; System Installation and Customer Information</b>
	<b>Windows 95, WINNT 4.0</b>
	<b>RSX-11M/M-PLUS Operating System</b>
	<b>AOS USER Course</b>
1983	<b>Electronics 1, 2 (DC Drives)</b>
	<b>Fitting 1</b>
	<b>Metalwork 1</b>

### Professional Certifications / Registrations / Memberships

- Fundamentals of Project Management - PMBOK Damelin.

### Computer Skills

#### Software:

- Microsoft Office (Word, Excel, PowerPoint)
- Experience in OpenProj and Microsoft Projects
- Microsoft Access
- Microsoft SQL Server
- Microsoft VBA
- Wonderware SCADA, Archestra IDE, INSQL software
- Rockwell RSLogix 5000 and Rockwell AssetCentre software
- CSense (GE) Process Plus process loop reporting
- Dameware mini remote control
- Screwturn wiki to develop a C&I knowledge base (Open source to manage own web page wikis)
- SAP user basics
- Some Overall Equipment Effectiveness software knowledge (OEE)

### Equipment / Machine Experience / Knowledge

<ul style="list-style-type: none"> <li>• An Electric Arc Furnace (EAF)</li> <li>• A Continuous Caster (VACC)</li> <li>• Water Plant</li> <li>• Raw materials handling (RMS)</li> <li>• 2*Daniele Ceda Slab grinders</li> <li>• An Argon Oxygen Decarbonizer using steam for cooling (CLU) Creusot - Loire Uddeholm</li> </ul>	<ul style="list-style-type: none"> <li>• Recappers An Argon Oxygen Decarbonizer (AOD)</li> <li>• Dust Extraction Plant</li> <li>• Laboratory</li> <li>• A Voest Alpine Continuous Caster (VACC)</li> </ul>	<p><i>Programming and fault finding:</i></p> <ul style="list-style-type: none"> <li>• Allen Bradley PLC'S (BBC and Struthers and Dunn PLC's)</li> </ul>
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### Areas of Expertise

- Fundamentals of Project Management.
- Data mining in INSQL in Wonderware Historian.
- Tag and data value searching in Wonderware SCAD's and Allen Bradley PLC's in RSLogic5000, for metals accounting accuracy.
- PC and Server load and setup with Microsoft System Centre Configuration Manager (SCCM) and deploy Process Plus, Wonderware and Rockwell software.
- Diagnosis of hardware and software problems.
- Hands on experience in PC repairs and cabling.

## Career History

<b>1.</b>	<b>NOV 2014 – TILL NOW</b>
<b>UNIVERSITY OF PRETORIA (TUKKIES)</b> Pretoria, South Africa	
<b>FIRST INSTRUCTOR THERMO FLOW – TUKS MEGANICAL AND AERONAUTICAL ENGINEERING</b>	
<b>Responsibilities</b> <ul style="list-style-type: none"><li>• Assist MSC and PHD students with their thermo dynamic lab tests and daily running of the thermo lab.</li><li>• Assisting them with their heat exchanger designs and as well as looking after the instrumentation, electrical, mechanical components in the lab.( thermocouples, PT100's, pumps, motors, NI DAC, Mico motion Coriolis Flow meters, Chillers, Thermo Baths, Solid works, labview)</li><li>• Responsible for OHS, setting work and equipment standards, inventory, all tools and equipment in the Thermo Flow lab.</li><li>• All project planning done by the students are checked and signed off by me before they can continue building there test bench / sections for their heat transfer research.</li><li>• Manage budget and predict next year's equipment and budget needs.</li></ul>	
<b>2.</b>	<b>JUL 2013 – OCT 2014</b>
<b>FREE LANCE TRAINER FOR Rockwell Automation and IDC Technologies, South Africa</b>	
<b>FREE LANCE TRAINER</b>	
<b>Responsibilities</b> <ul style="list-style-type: none"><li>• Training: Practical Programmable Logic Controllers (PLC's) and SCADA systems for <b>Rockwell Automation SA I</b> as a contractor as well as PLC training for the <b>IDC Technologies</b>.</li></ul>	
<b>FREELANCE AT UNIVERSAL INFORMATATION TECHNOLOGIES PTY LTD. (UIT) AS OFFICE MANAGER</b>	
<b>Responsibilities</b> <ul style="list-style-type: none"><li>• Sales and maintenance of UIT products and services ADSL, Email services, network and IT related soft and hardware components. Stock controlling quoting and invoicing using Pastel Evolution. Assisting the technicians with Pc set-up and maintenance. Planning and executing network installations.</li></ul>	
<b>2.</b>	<b>SEP 2008 – JUN 2013</b>
<b>Lonmin Marikana</b> Rustenburg, South Africa	
<b>AUTOMATION SPECIALIST - C&amp;I ENGINEERING (LPD)</b>	
<b>Responsibilities</b> <ul style="list-style-type: none"><li>• Maintaining and developing Lonmin control &amp; instrumentation standards, with emphasis on the Metals Accounting Instruments.</li><li>• Ensuring regular calibration of all the instruments as well as regular maintenance and testing of each instrument is done regularly and that there are traceable certificates and records of all these activities on SAP.</li><li>• Working closely with SQL and INSQL to query hoisted figures and address problems that occurred on PLC level verify tags from PLC level through to the Archestra tags and the INSQL data.</li><li>• Maintaining the correct functioning of the CSense Process Plus software that is used for reporting on the concentrator control loops.</li><li>• Working in a specialist section where the focus is to supply specialist services to the whole of Lonmin consisting of 7 concentrators, 11 shafts, Smelter, Base Metals Refinery (BMR) and Precious Metals Refinery (PMR).</li><li>• Acting as a standby for the SCADA and Rockwell specialists.</li><li>• Reloading of PC's and Servers with operating systems, MSSQL, CSense, Rockwell and Wonderware software using SCCM.</li><li>• Ensuring that instrumentation and electrical personnel are trained in Allen Bradley, WonderWare and Hirschman networks equipment and software.</li><li>• Ensuring that the user manuals and system documentation is in place and up to date.</li><li>• Liaising with the customer (production management and personnel) on future changes and present</li></ul>	

<p>problems.</p> <ul style="list-style-type: none"> <li>• Loading and maintaining Dameware licenses as well as using Solarwinds Orion IP Address Manager and Network Performance Monitor.</li> <li>• Initiating and maintaining a call logging system (Easy Deck) to be able to identify recurring problems.</li> <li>• Developing a training program for the C&amp;I Departments and arranging Rockwell and Wonderware training for all the plant personnel where training was successfully given to 362 candidates at a cost of R2, 4 million.</li> <li>• Negotiating the course price, ensuring that the candidates and Trainers get there on time and arranging the venue and equipment as well as loading the software needed for the different training.</li> <li>• Planning and executing the Lonmin 2012/13 Server and PC roll out on the Control domain. The project comprised of approximately 64 servers and 220 PC's running Wonderware and Rockwell software.</li> </ul> <p><b>Achievements</b></p> <ul style="list-style-type: none"> <li>• In 2009 we trained a record number (362 candidates at a cost of R2.4 million) of C&amp;I personnel n Rockwell, Hirschmann and Wonderware.</li> <li>• Reduced the difference in metals accounting reported via hand to the historian.</li> <li>• Concluded Scantech moisture monitoring project at Lonmin.</li> <li>• Implemented an incident logging system for our team and a Knowledge base for Lonmin C&amp;I.</li> </ul>
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<p><b>3. 2003 – 2008</b></p> <p><b>GijimaAst - Columbus Stainless Site</b> Mpumalanga, South Africa</p> <p><b>SENIOR ANALYST PROGRAMMER</b></p> <p><b>Responsibilities</b></p> <ul style="list-style-type: none"> <li>• Developing and maintaining software on Raw Material System in C++, C# and SQL.</li> <li>• Training Operators.</li> <li>• Writing training manuals for users.</li> <li>• Preparing system documentation.</li> <li>• Performing standby duties on the steel plant raw materials, Electric Arc Furnace (EAF), Argon Oxygen Decarbonizer (AOD), Continuous Caster and Slab grinder Computer systems.</li> <li>• Backup and data recovery procedures.</li> <li>• Liaising with the customer (production management and personnel) on future changes and present problems.</li> <li>• Providing the customer with reports to enable them to make the right decisions.</li> </ul> <p><b>Achievements</b></p> <ul style="list-style-type: none"> <li>• Our team successfully wrote and implemented the Grinder Software Project.</li> </ul>
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<p><b>4. 2003 – 2008</b></p> <p><b>Mouse Hunt Internet Café and Computers</b> Mpumalanga, South Africa</p> <p><b>CO-OWNER</b></p> <p><b>Overview</b></p> <ul style="list-style-type: none"> <li>• The workshop and all technical solutions where the Technicians could not cope were my responsibility. I was instrumental in acquiring maintenance contracts and finalizing such. Sourcing all computer hardware was also my responsibility. The business hours were such that after my day job at Gijima I could do most of my work at Mouse Hunt. For other large jobs I had to take leave from Gijima.</li> </ul> <p><b>Responsibilities</b></p> <ul style="list-style-type: none"> <li>• Managing a staff compliment of 2 Technicians.</li> <li>• Repairing and quoting on computers.</li> <li>• Installing small networks, fault finding and repairing existing networks.</li> <li>• Ordering and sourcing spares.</li> </ul> <p><b>Achievements</b></p> <ul style="list-style-type: none"> <li>• We started the business from scratch and built it to generate an annual turnover breaking R1 million within 5 years.</li> </ul>
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<p><b>5. 1994 – 2003</b></p> <p><b>Columbus Stainless</b> Mpumalanga, South Africa</p> <p><b>SYSTEM ENGINEER</b></p> <p><b>Overview</b></p> <ul style="list-style-type: none"> <li>• Middelburg Steel and Alloys (MSA) was bought by Anglo American at which stage the name changed to Columbus Stainless. Preceding the name change a project CJV project was launched where the incumbent was asked to change vocation into the automation side of the business known as level 2.</li> </ul>
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- In Jan 1994 the incumbent was sent overseas to Voest Alpine Industieanlagenbau in Linz Austria for 1 years training and customer participation in developing the software for the VACC. The software was developed in C using Teleuse as Graphical User Interface (GUI). The system was developed on a mini VAX 4000 90 and at present running on a 4000 100. A quality monitoring system (CAQC) also makes out part of the system. The system was successfully commissioned in Jul 95 from where the incumbent was moved to the Slab Grinder SG2 to commission and maintain the Daniele system. The system was also developed in C with JAM as a GUI (4GL) but the JAM was not stable enough therefore it was decided to rewrite the software to suit special needs.

#### **Responsibilities**

- Developing and maintaining software on SG2 using C++.
- Training Operators.
- Compiling training manuals for users.
- Preparing system documentation and a standby manual.
- Backup and data recovery procedures.
- Ensuring adherence to Y2K.
- Liaising with the customer (production management and personnel) on future changes and present problems.
- Providing the customer with reports to enable them to make the right decisions.
- Standing in for the Team Leader when he was away.

#### **6. 1989 – 1994**

**Middelburg Steel & Alloys**  
Mpumalanga, South Africa

#### **SENIOR INSTRUMENT TECHNICIAN**

#### **Responsibilities**

- Implementing, maintaining and developing of a Data Acquisition Package called Turbolink. Also all PC networking and programming of any PC's and PLC's dedicated to Meltshop Instrumentation.
- Apart from breakdowns and scheduled maintenance I shared the responsibilities in matters such as managing learner Technicians, Artisans and techniques updating drawings, as well as planning and implementing new projects.
- Training learner Technicians and students.
- Liaising with various suppliers and ordering spares and equipment.
- Acting as the Foreman of the Meltshop Instrumentation Department consisting of Senior Technicians, Learner Technicians and Assistants.
- Responsible for Safety (2.9.2), shutdown planning, the general maintenance and smooth running of the plant.
- Managing the budget spares and stock lists.
- Whilst in the Instrumentation Department, apart from normal standby duties I also performed Electrical Foreman standby duties.

#### **Major Projects**

- Building an Argon / Nitrogen Rinsing station.
- As a team the plant upgrades increased the furnace output from 8 x 50 ton heats to 16 x 50 ton heats per day.

#### **Career History: Previous Positions**

1.	<b>FIRST INSTRUCTOR THERMO FLOW – UNIVERSITY OF PRETORIA (TUKKIES) MEGANICAL AND AERONAUTICAL</b> Nov 2014 – to present
2.	<b>FREE LANCE TRAINER</b> for IDC Technologies SA and Rockwell Automation SA Jul 2013 – Nov 2014
3.	<b>AUTOMATION SPECIALIST - C&amp;I ENGINEERING (LPD)</b> Lonmin Sep 2008 – Jun 2013
3.	<b>SENIOR ANALYST PROGRAMMER</b> GijimaAst - Columbus Stainless Site 2003 – 2008
4.	<b>SYSTEM ENGINEER</b> Columbus Stainless 1994 – 2003
5.	<b>SENIOR INSTRUMENT TECHNICIAN</b> Middelburg Steel & Alloys

	1989 – 1994
<b>6.</b>	<b>SOFTWARE / HARDWARE TECHNICIAN</b> Iscor 1985 – 1989
<b>7.</b>	<b>LEARNER TECHNICIAN</b> Iscor 1982 – 1985
<b>8.</b>	<b>TECHNICIAN</b> Sharp Electronics 1980 – 1982

#### **Key Strengths**

- Excellent trainer.
- Team player and good negotiator.
- Adaptable to changes as required.
- Knowledgeable and hardworking.
- Prepared to learn new skills and renew old skills.
- Organised and thorough in planning and implementing.

#### **References**

Available on request.