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| Bilal Qandeel  Control Engineering | IT and Software Development | OT Cybersecurity | Regulatory Experience   |  |  | | --- | --- | | * (438) 921-5565 | * [**bilal.qandeel@gmail.com**](mailto:bilal.qandeel@gmail.com) | | * [**https://candloid.github.io/bilalqandeel/**](https://candloid.github.io/bilalqandeel/) | | | * [**https://www.linkedin.com/in/bilalqandeel/**](https://www.linkedin.com/in/bilalqandeel/) | | |  |

# Profile

* Electrical engineering professional with 10+ years of experience in cross-disciplinary fields:
  + IT and development experience;
    - Proficient in OOLs: Python, Java, C Language (mainly C++), and variations of BASIC.
    - Worked with MongoDB, MySQL, JSON, XML.
  + Automation applications: HVAC control, substations control and industrial process control;
    - Expert on IEC61850 protocol and SCL language for substations automation.
    - Expert on IEC61131 PLC engineering.
    - Extensive experience in cybersecurity.
    - Experienced in computer hardware, embedded systems and machine language.
  + Worked shortly on state-level regulatory telecommunications and sales.

# Professional Experience

* **SSENSE**
  + Software Developer Montreal, Quebec, Sep 2019 – Dec 2019
    - Python development for web framework over Flask for microsystems architecture.
    - Industrial coding using Git, Docker, K8S, Jenkins and TestRail.
    - Data analytics and visualization using DataDog and NewRelic.
* **SCHNEIDER-ELECTRIC**
  + Distributed Control Systems (DCS) Specialist Brossard, Quebec, Nov 2016 – May 2018
    - Schneider-Electric’s PACiS, EcoSUI, PowerSCADA, Easergy, Struxureware.
    - SCADA, DNP3, Modbus, HMI, iFLS, FDIR, IEC61850 IEDs: Schneider-Electric, SEL, Vizimax, Cooper and ABB.
  + Automation Engineer Riyadh, Saudi Arabia, Mar 2014 – Nov 2016
    - PACiS, SCADA, T101, T104, HMI, IEC61850 IEDs: SEL, ABB, Continuum and Modicon.
    - OT cybersecurity: NERC-CIP and ISA99.
  + Senior KNX/EIB Engineer Riyadh, Saudi Arabia, Jun 2012 – Mar 2014
    - KNX BAS, EMS, FMS, BMS, HVAC, DALI and KNX
    - Rendered AutoCAD schematics for risers and shop drawings.
* **TELECOMMUNICATIONS REGULATORY COMMISSION OF JORDAN (TRC)**
  + Telecommunications Regulatory Officer Amman, Jordan, May 2011 – Aug 2012
    - Governmental telecom regulation, field inspections, competition analysis, EU regulatory twinning.
  + Frequency Inspection and Monitoring Engineer Amman, Jordan, Jun 2010 – May 2011
    - Radio frequency utilization analysis and field radio-frequency test drives.

# Professional Development

Certified KNX Partner (ID 42599), KNX Organization, May 2013

Certified LEED Green Associate, US Green Building Council, Feb 2015 – Feb 2017

LEED 201: Core Concepts & Strategies, US Green Building Council, 2013

Certified in FIDIC Redbook International Federation of Consulting Engineers, 2015

WHMIS 2015, Easergy T300 Overview, ISA99 Cybersecurity, PACiS SAS, Basic Electrical Safety, M238 Industrial PLC, Andover BMS Boot Camp, NETxAutomation, Certified Energy Management Associate & 2N IP Security, Schneider-Electric, 2012 – 2017

PMP preparation (36 PDUs) Saudi HRD Center, PMI-(REP), 2013

MCSE training course – Windows 2003 Server Jordanian Engineers Association, 2007

A+ Hardware Core, Allen-Bradley PLC University of Jordan, 2003 – 2005

# Education

* CONCORDIA UNIVERSITY
  + GrDip in Computer Science Montreal, QC, Sep 2018 – Sep 2019
    - Summer class of 2019 semester.
* THE UNIVERSITY OF JORDAN
  + B.Sc. in Electrical Engineering Amman, Jordan, Jun 2003 – Aug 2007
    - Credentials authenticated & evaluated by the World Education Services Canada.
    - Focus on control theory, computer applications & telecom principles.

# Memberships

Member of Association of Professional Engineers & Geoscientists of Saskatchewan, MIT, 2017

Member of Project Management Institute (PMI), 2013 – 2015

Member of Saudi Engineers Council, associate engineer, 2012 – 2016

Member of Jordanian Translators and Applied Linguistics Association, 2011

Member of Jordanian Engineers Association, Electrical Engineering division, 2007

# IT Skills

|  |  |  |  |
| --- | --- | --- | --- |
| Java | ★★★★☆ | Python | ★★★★☆ |
| VB/A/S | ★★★★☆ | C/C++ | ★★★★☆ |
| LISP | ★★★★☆ | HTML | ★★★☆☆ |
| SQL | ★★★☆☆ | Assembly | ★★★★★ |
| Linux | ★★★☆☆ |  |  |

# Industrial Coding Tools

|  |  |  |  |
| --- | --- | --- | --- |
| Git | ★★★☆☆ | Docker | ★★★☆☆ |
| K8S | ★☆☆☆☆ | Jenkins | ★☆☆☆☆ |
| TestRail | ★★★☆☆ | HTML | ★★★☆☆ |
| DataDog | ★★★☆☆ |  |  |

# Languages

|  |  |  |  |
| --- | --- | --- | --- |
| Arabic | ★★★★★ | English | ★★★★★ |
| French | ★★☆☆☆ |  |  |
|  |  |  |  |

# Engineering Skills

|  |  |  |  |
| --- | --- | --- | --- |
| SCADA | ★★★★★ | AutoCAD | ★★★★★ |
| IEC61850 | ★★★★☆ | IEC61131-3 | ★★★★☆ |
| EcoSUI | ★★★★★ | PLC | ★★★☆☆ |
| μC | ★★★★☆ |  |  |
|  |  |  |  |

# Personal Characteristics

Innate leadership skills.

Can work under pressure.

Result-oriented with attention for details

Professional negotiator.

Advanced technical writing skills.