

Marcell Vaziri

Montreal, Canada

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PROFILE

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- Plus 12 years experience in designing, Installation, and Commissioning in oilfield and CNC field equipment
 - Plus 2 years Research and Development
 - Working experience in CNC fields, Milling and Turning machines, Hydraulic and Pneumatic (Siemens, Heidenhain, Mitsubishi, Fanuc, GSK)
 - Practical and Theoretical Instrumentation, Power Electronics and Control
 - Excellent Professional Computer Tools such as: EPLAN, MATLAB, INTOOLS, AUTOCAD
 - Ability to work with different standard such as: API, IEC, CSI, and IEEE

EDUCATION

Master's Degree of Electrical Engineering (Control Systems and Automation) Sep. 2009 – Dec. 2012

Polytechnic Montreal, Canada

Bachelor of Electrical Engineering (Electronics)

Sep. 1993 – Feb. 1998

Isfahan (IAUN), Iran

EXPERIENCE

Electrical Commissioning Engineer

SETCNC & KNS LTD, Isfahan, Iran

Nov. 2013 – Present

- Design and fabrication of control panels for the automation of CNC milling machines
- Installation, maintenance, commissioning and troubleshooting of CNC Milling Machines and PLC automation (SIEMENS, HEIDENHAIN, FANUC, MITSUBISHI, GSK)

Research Assistant

Polytechnic Montreal

Jan. 2012 – Dec. 2012

- Design a Robust Second Order Sliding Mode Controller of a Rotary Inverted Pendulum
- Maintained and calibrated instruments in the System
- Programmed the project with Matlab and Simulink software
- Wrote technical report explaining the simulation and experimental setup
- Worked with students (answered questions and explained concepts) in System and Simulation laboratory (ELE2200)

Mechanical & Electrical Technician

Nov. 2008 – Sep. 2009

ECOGRANITE Inc., Montreal, Canada

- Maintained polishing and sawing equipment for the customization and installation of granite and marble in residential applications



Maintenance Engineer

Jan. 2005 – Sep. 2008

KHARG PETROCHEMICAL COMPANY, Persian Gulf, Iran

- Cooperator and worked as K.P.C Technician with the site commissioning team from Siemens
- Contributed in all aspects of the commissioning process including electrical installation and control interface as well as instrument installation and control interface
- Became an integral part of the team during the 18 month project, on the Siemens' SGT4000 Cyclone Dual fuel DLE gas turbine commissioning site in order to perform calculations and electrical sizing, install, start up and maintenance
- Calibration of different types of field Instrument likes pressure, flow, level, temperature transmitters, Analyzers, Different types of control valve. Perform plant commissioning, plant maintenance , trouble shooting, preventive and corrective. Knowledge in DCS and PLC trouble shooting for I/O link signal. Experience in Different Plant maintenance as well as Refinery, chemical, and power plant.
- Established metrics, measured and improved quality, observed standards and ensured requirements for ISO
- Developed plans to inspect, test, measure, calibrate, replace and repair and ensured correct functionality

Maintenance Technician

May 2000 – Sep. 2004

ATLAS NOOR, Isfahan, Iran

- Maintained control, Turning and Milling CNC machines
- Analyzed failures and root causes, devised and executed corrective and preventive/ predictive actions and improved asset maintenance operation

Electro Mechanical Technician

7th Tir Complex Industry, Isfahan, Iran

Sep. 1998 – May 2000

- About two years experience as an instrument and electrical engineer in detailed engineering, procurement, engineering co-ordination, Maintenance of Instrumentation and control systems like CNC machines, hydraulic die casting machines, and drilling machines.

JOURNAL PUBLICATIONS

- Mohsen Vaziripour, Gholam-reza Sari, and Lahcen Sayday, *A Robust Second Order Sliding Mode Controller of a Rotary Inverted Pendulum*, Submitted
- Ehsan Kamrani, Mohsen Vaziripour, Armin N. Foroushani, and Mohamad Sawan, *Efficient Hemodynamic States Stimulation using fNIRS Data with the Extended Kalman Filter and Bifurcation Analysis of Balloon Model*, Journal of Biomedical Science and Engineering, 2012.
- Ehsan Kamrani, Armin N. Foroushani, Mohsen Vaziripour, and Mohamad Sawan, *Detecting the Stable, Observable and Controllable States of the Human Brain Dynamics*, Journal of Medical Imaging , 2012

COMPUTER SKILLS

- PLC software (S7,S5 Unity Pro M340, GSKLadder),INTOOLS Software, HMI software (WinCC, Vijeo designer), EPLAN, MATLAB, LabVIEW, C++ , AutoCAD.