**Diane Gilbert **

**Control, Automation & Instrumentation Engineer**

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**OBJECTIVES**

* To apply Science and Technology innovation in the control and automation environment that will increase efficiency and effectiveness of lean manufacturing process.
* To achieve success through team accomplishment, in positions of progressive responsibility and functional leadership.

**EDUCATION**

* Honors B.Sc. in Electrical Engineering**,** University of Waterloo, 2008
* Partially completed M.S. in Automation Engineering Process Control, University of Waterloo (currently in process)

**MY COMPETITIVE ADVANTAGE – TECHNICAL**

* Automation Control Engineer by educational background with solid practical knowledge of Electrical Circuits and Programming Concepts.
* Well versed with multiple coding environments and technologies, Allen Bradley RSLogix, WonderWare, VB, C#, MatLab, GE Proficy iFix, MS SQL Server, Oracle PL/SQL, HTML, ASP.NET, OPC, Excel VBA
* Experience in developing systems and interfaces to support legacy systems. Process data collection and integration into level 1, level 2 and level 3 systems.
* Developed advanced control algorithms, multi-variable control, and advanced alarm conditions.
* Experience developing custom vision software and control algorithms for EAF control.
* Strong statistics, data analysis, simulation, control design, optimization background in all areas of manufacturing

**INDUSTRIAL WORK EXPERIENCE**

**Gondran Steel Manufacturing Jan 2012 – Present**

**Steel Producer**

***Automation Engineer***

Responsible for:

* The efficient operation of a 600,000 ton/year AC Electric Arc Furnace, including developing / maintaining existing automated control systems and data acquisition.
* Cost-effective use of scrap and inventory management according to lean manufacturing principles.
* Created online process control models to assist the team in optimal materials purchasing based on production requirements.
* Designed a Windows-based service model to manage inventory and compile scrap mix data for reporting purposes
* Provide data acquisition and advanced process control support to production and maintenance plant wide.
* HTML and SQL based automation to provide production division with process information to increase overall operational efficiencies.
* Developed a control strategy and custom code for the EAF, regulating the draft via a camera, programmed image analysis algorithms using a .NET SDK in VB.
* Program with ControlLogix PLCs and Wonderware HMI. IO Driver and OPC servers such as Kepware and TopServer.
* Installed and setup Wonderware Historian servers and clients. Setup event system to track process control issues when out of control deviations occur to improve SPC.
* Made an ASP web server acting as an access portal for summarized process data
* Scrap automation – HMI / Layering Optimization / Inventory control / Cost Optimization – Automated an Engineering Position
* Carbon Control model implementation – an Advanced model for slag foaming in conjunction with the Steel Research Council out of McMaster University.
* Programmed .NET windows services to acquire all Level 2 / Level 3 data via OPC & Oracle
* Query / Procedure design in Oracle PL/SQL and MS-SQL T-SQL

**Denova Solar Inc. Jul 2009 – Dec 2011**

**Solar Manufacturing**

***Automation & Control Engineer***

Responsible for:

* Design control circuits for electrical and automation.
* Specify the instrumentation required by first analyzing the needs for plant control mechanisms
* Provide advice on the type of equipment to be used, manage the installation of equipment by contractors,
* Carry out factory acceptance tests commission by starting up the plant and implementing the necessary adjustments to process parameters to optimize the plant
* Provide technical training to operational and service personnel
* Provide technical support and breakdown assistance to customers

**INTERNSHIPS & SUMMER JOBS**

* Opack Packaging Manufacturer, ***Control Engineering***, 2008
* Tantec Engineering Firm, ***Control Engineering***, 2008
* Wangel Inc, Gelatin Manufacturer, ***Process Automation Engineering***, 2007
* Bracken Steel, Stainless Steel Manufacturer, ***Electrical Engineering***, 2007
* Lomtar, Paper Mill, ***Electrical Engineering***, 2006

**REFERENCES**

* **Denova Solar Inc**

*President*

Gary Osborn

666-777-0000

[Email.email@email.com](mailto:Email.email@email.com)

* **Gondran Steel**

*Engineering Manager*

Barry Childs

800-456-1111

[Email.email@email.com](mailto:Email.email@email.com)

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