

JOHN BLASZYNSKI

619 Chantler Road Fenwick, On L0S1C0

(905) 933-9796 (cell)

E-mail: john@idquest.com

I. HIGHLIGHTS

- ***Mechanical and Electrical Engineer with Electronics and Systems specialization***
- ***Proficient design and project management skills from sketch to scale***
- ***Passion for concept to mass production development cycle***
- ***Sensor development experience (Bio-medical, industrial and fiber optics - FBG)***
- ***Product optimization to increase ROI and IRR and meeting standards (CSA, IESO etc.)***
- ***RF and Optics, firmware and hardware design and management experience***
- ***Demonstrated problem solving and lateral thinking skills***
- ***Patents in Electronics and Processes***
- ***Excellent communication skills both written and verbal***
- ***Designed and conducted a photonics experiment to validate a photon particle model***
- ***Developing a Harsh Environment sensor to predict probability of Mechanical Failure***

II. RELEVANT EXPERIENCE

Engineering/Research

- Developed from creative concept to final production and patent of products ahead of schedule, i.e. autonomous and embedded systems as well as control systems:
 - Industrial Controls “Smashup” detector for leading automobile manufacturer
 - Three phase protection device, for compressors and controls
 - Designed a Biogas Power Generation Facility for connection to local Grid.
 - Consumer, Bioengineering and Telecommunications products
- Designed low voltage (480V to 600 V) industrial controls to CSA and UL standards
- Designed LED light source with variable spectral and lumen output
- Designed and conducted photonics experiment
- Familiar with Blue Tooth LE design
- Extensive hardware and firmware design experience with design to test experience
- Optimized system design, testing and reduced manufacturing costs for customers
- Product life cycle design experience including focus group testing and customer feedback
- Used engineering principles to design, test, prototype and manufacture products

Management/Public Relations

- Select, Validate, and Coordinate local and off shore manufacturing sub-contractors with a [National Public Relations Program](#) for retail sales campaign
- Managed product life cycle changes and quality enhancement via stakeholder feedback
- Prepared Business Plans including Budgets, Budgetary Pricing, Gantt charts, ROI, NPV
- Always exceeded customer expectations - under budget and ahead of schedule
- Project coordination with many agencies NRC, DOC, UL, HRDC and CSA etc.
- Implemented 6 phases of project management

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Teaching /Software

- **Engineering/Math Professor** Cross appointments in Mechanical & Electrical Engineering Control Systems and Advanced Control Systems, Linear and Digital Electronics, Devices, Telecommunications, Communications Protocols, Microprocessor programming, Intel, Auto Cad, MS Office, Calculus (DE and Transforms)
- Developed and instructed 24 and 30 week, application specific training programs for "Engineer in Training" Program to correspond to HRDC competency and funding model
- Embedded microprocessor design experience
- Optimize design for cost, testing and QC
- Vendor support, focus group study, and customer relations
- Utilized simulators, design studios and programming software for various Microprocessors
- Graphics, PCB and Case tooling design experience (PADS, CAM350 CAD and AutoCAD)
- Taught and used Microsoft Office and design software i.e. SPICE, ORCAD etc.
- Developed Photon particle model and photonics experiment to successfully validate model (to be published in a peer reviewed Journal)

III. EMPLOYMENT HISTORY

Research Project	Self Funded	2010-Present
Consulting Engineer	IdQuest Inc., St. Catharines, ON	1992-Present
Engineering/Math Professor	Mohawk College, Hamilton, ON	2007-2012
Engineering/Math Professor	Niagara College, Welland, ON	1989-2003
Project and Design Engineer	Novid Inc., St. Catharines, ON	1996-2002

IV. EDUCATION, PROFESSIONAL DEVELOPMENT

**B. Eng. (General and Electrical),
Small Business Fundamentals
Computer Aided Design for ASIC's
Audited a Colleagues Real Analysis Class
Applicant Representative Initiative Program
Supervisor Health and Safety Awareness Certificate**

Carleton University
Niagara College
OCME
Brock University
Toronto Hydro