

Elson Pontes

Automation and Control Engineer

I'm an Automation and Control Engineer and I use my knowledge to have a better perspective of my ideas and my customer needs. I have passion to work with automated systems as well as creating / designing mechanical parts for engineering projects using CAD softwares such as SolidWorks and CATIA.

 elsonmpf@hotmail.com

 **Ottawa, ON - Canada**
K2G 4L1

 [linkedin.com/in/elsonmpf](https://www.linkedin.com/in/elsonmpf)

 [behance.net/elsonmpf](https://www.behance.net/elsonmpf)

 **(613) 415-8402**

TOP SKILLS

- **3D CAD - Catia / SolidWorks**
- **Computer-aided design**
- **Coding - Python / C**
- **Mechanical Design**
- **Project Coordination**
- **Fast Learner / Multi Tasker**
- **Design Thinking**
- **Written / Verbal Communication**
- **MS Office / Apple iWork**
- **Problem Solving**
- **Product Development**
- **Used to tight deadlines**
- **People and Networking**
- **Adaptable to changes**
- **Self-motivator**
- **Detail Oriented**
- **Plan and Organize**
- **Product Design**
- **Decision Making**

LANGUAGES

- **English - Fluent**
- **Portuguese - Native**
- **Spanish - Beginner**

WORK EXPERIENCE

Freelancer

2018 - 2019

- Designing products / parts using SolidWorks based on the customer needs and / or the customer ideas
- Delivering high quality renders and drawings based on CAD files to better demonstrate a most realistic appearance of the product
- Designing parts to be 3D printed for different applications such as prototyping

Coordinator Intern

Única Automação

2015 - 2016

Fortaleza, Brazil

- I was responsible for managing and training new employees conducting on site demonstrations
- I was in touch with 100+ partners, clients, suppliers to discuss current and future projects
- I was also constantly contacting potential partners to demonstrate our products and close partnerships
- Reviewed client's feedback through phone calls, so I could suggest ways to improve projects
- I used AutoCAD to design wiring diagram for home automation systems based on the specific needs of the project

Engineering COOP

SKF Canada

2015 - 2015

Calgary, Canada

- My main responsibilities were related to provide support to the reliability engineering team with the management of Industrial Assets in a variety of engineering projects using mostly Microsoft Excel
- I was assigned to gather and organize industrial **asset information** based on data analysis of thousands of P&IDs to then create an asset hierarchy
- Working along with the COOP team in the registration of documents related to the industrial assets

Internship in Automation

Única Automação

2014 - 2014

Fortaleza, Brazil

- One of my duties was the development of new products as well as programming the automation modules based on the customer needs
- I was responsible for the installation and maintenance of automation modules in the clients house
- Continuous improvement of the quality / reliability and elimination of issues through customer support provided by me
- I was assigned to work on the user interface (UI) and the user experience (UX) using HMI techniques

EDUCATION

B.Eng, Automation and Control Engineering - *Fortaleza, Brazil*

Universidade de Fortaleza

2017

Mechanical Engineering - *Regina, Canada*

University of Regina

International Exchange Student

2014 - 2015

RELATED SKILLS

Technical

- Designed 3D parts using CATIA and SolidWorks when building a robot for the Robot Club at my University
- Use of TIA Portal to program PLC's (Siemens) for several applications in the university.
- Utilizing milling machine, CNC and 3D printing for personal and university projects
- Creation of drawings of mechanical parts and assemblies, using CATIA and SolidWorks

Computer

- Engineering Softwares: CATIA, SolidWorks, KeyShot, Proteus, TIA Portal
- Programming: C, Python, SCADA, Anaconda, Atom, TensorFlow, ML
- Basic Softwares: MS Office (Word, Excel, PowerPoint), Apple iWork (Pages, Numbers, KeyNote), Adobe Photoshop, Adobe Premiere

Management & Supervisory

- I trained and managed new employees in a Brazilian company
- I managed a group of students in a robotic project in which I was placed as the leader
- I participated in the development of a project for the Engineering Project Management course at the University of Regina - Canada, and for the same course at the Universidade de Fortaleza - Brazil
- I was assigned to deal with cost estimate and deadlines for home automation projects

General Transferable Skills

- Excellent oral and written communication in Portuguese and English (IELTS CLB 9)
- As a Control and Automation Engineer, I visited many industries, where I had the opportunity to better understand its operations

PROFESSIONAL TRAINING

- Industrial Design Foundations - LinkedIn Learning (2019)
- Design Foundations: Physical Materials - LinkedIn Learning (2019)
- SolidWorks 2015 (Basic to Advance level Training) - Udemy (2019)
- Design Foundations: Prototyping and Manufacturing - LinkedIn Learning (2019)
- Introduction to Geometric Dimensioning and Tolerancing - LinkedIn Learning (2019)
- SolidWorks: Design for Mechatronics - LinkedIn Learning (2019)
- Lean Six Sigma Foundations - LinkedIn Learning (2019)
- Additive Manufacturing for Business - LinkedIn Learning (2019)
- SolidWorks: Mold Design - LinkedIn Learning (2019)
- CATIA V5: Design for Injection Molding - LinkedIn Learning (2019)
- Additive Manufacturing: Materials for 3D Printing - LinkedIn Learning (2019)
- Rapid Prototyping for Product Design - LinkedIn Learning (2019)
- SolidWorks: Sheet Metal Design - LinkedIn Learning (2019)
- Complete CATIA V5R20 - Udemy (2018)
- Introduction to Python: Absolute Beginner - Microsoft EDX (2018)
- Introduction to Python: Fundamentals - Microsoft EDX (2018)
- Introduction to Python: Creating Scalable, Robust, Interactive Code - Microsoft EDX (2018)
- Machine Learning Crash Course - Google (2018)
- Intro to Python for Data Science - DataCamp (2018)

Awards / Scholarships / Workshops

Federal Government Scholarship (2014 - 2015)

I was honored to receive from the Federal Government of Brazil, a scholarship to study and work in Canada. The program is known as Science Without Borders

Interactive Totem

I subscribed in a contest of ideas for the creation of an Interactive Totem at the Universidade de Fortaleza during my first term as an engineering student. I achieved the 4th place competing with senior students

Workshops

Renault Experience (Electric Automobile, Embedded Electronics, Engines). Arduino. MatLab. CATIA. SolidWorks. PLC's. Green Energy

VOLUNTEER SERVICES

[Habitat for Humanity - 2014](#)

Regina, Canada

Habitat for Humanity is an international, non-governmental and non-profit organization that builds safe and affordable homes