

Charles Ha

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English – French - Vietnamese

Formation

Bachelor of mechanical engineering

2014 - 2019

École de technologie supérieure(ÉTS)

University of Quebec, Montreal

Classes for bachelor in physics

2012

Université de Montréal

CEGEP diploma in pure and applied natural science

2011

CEGEP Ahuntsic

Computer knowledge

CAD: AutoCAD, CATIA V5, SolidWorks, Autodesk Eagle

Software languages: C++, C#, JavaScript, Dart

Software Framework: Qt, .NET, node.js, Flutter, Visual Studio / Code

Software tools: OpenCV, Darknet, YOLO, Google Cloud Platform: VMs, Buckets, etc.

Office: Microsoft Word, Excel, PowerPoint, Outlook, Gmail, and OpenOffice

Work Experiences

Chief Technology Officer & Founder – Mechasys

Mechasys was founded in 2017, an idea that started out small has quickly become the center point of my life in recent years. Mechasys is an R&D company that develops innovative technology for the construction industry: a robotic dynamic laser projector that can project construction plans on jobsites in real scale with extreme accuracy, a complex device that meshes the best of software and hardware technologies to create an ingenious new product. For most of my professional career I have been looking for a vocation to launch me to new heights, however great my past experiences were, I was left unsatisfied. Entrepreneurship was the answer. It had helped me find the missing part of myself by putting me in extreme situations that required me to step up or fail, I'm happy to say that I took the plunge and lifted my engineering aptitudes, management and leadership skills to new heights while accompanying an astounding engineering team.

Winter 2017 – Present

- Lead the research & development of a new product from the ground up by laying down the entire structure of meetings, documentation, timeline, roadmap and management of the engineering team.
- Communicate with suppliers, research and explore new technologies and handle the patent
- Meet customers and investors to raise capital and grow the company
- Managing employees and interns on-boarding, and setting them up to be autonomous

Acquired skill: Complete autonomy, create and maintain relationships with customers and manage employees

Engineering intern – Pratt & Whitney Canada

Fall 2017

- Analysis and automation of work procedures with VBA programming
- Tracking of technical changes on engines out on the field
- Familiarization with turboprops and turbofans engines
- Writing technical documents on work procedures

Acquired skill: Optimization of work procedures and management as a team

Mechanical Engineering Consultant – Scholle IPN

Spring 2017

- Heat transfer analysis of the cooling tank of an extrusion machine with the help of MatLab
- Investigate available options for improvements
- Redact a complete report of the mandate

Acquired skill: Real world analysis of a thermodynamic and heat transfer model

3D Modeler on SolidWorks – Les Portes Bourassa

Winter 2017

- Modelling of real objects into 3D models
- Research relevant materials to be used
- Create 3D models and 2D drawings on SolidWorks 2016

Acquired skill: Create detailed 3D models and 2D drawings on SolidWorks

Quality Intern – PCC Aérostructures

Fall 2016

- Implementation of NCR procedures
- Creation of 2D inspection plans on CATIA for the CMM machine
- Update parts with non-conformance on the system Baan

Acquired skill: Creating and managing an easy to follow structure for quality assurance on aviation parts

Tool Designer Intern on CATIA – Delastek Aéronautique

Winter 2016

- Design tools
- Choose the appropriate material for the job
- Create 3D models and 2D drawings on CATIA v5r21

Acquired skill: Design and create customized tools and go through the manufacturing process