Cristian Stéfan Talos

M.Sc.A. candidate, B.Eng., CPI

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About me

Masters' student at Polytechnique Montréal with a growing interest in programming and robotics. Started a part time certificate in applied informatics at the Université de Montréal to learn new skills and face new challenges. Versatile skillset in mechanical design, electrical circuits and programming. Unsatiable thirst for knowledge, most of my free time is spent on technical personal projects through which I learn new things. Seeking a job where my overflowing creativity can help solve complex problems and where personal growth is encouraged.
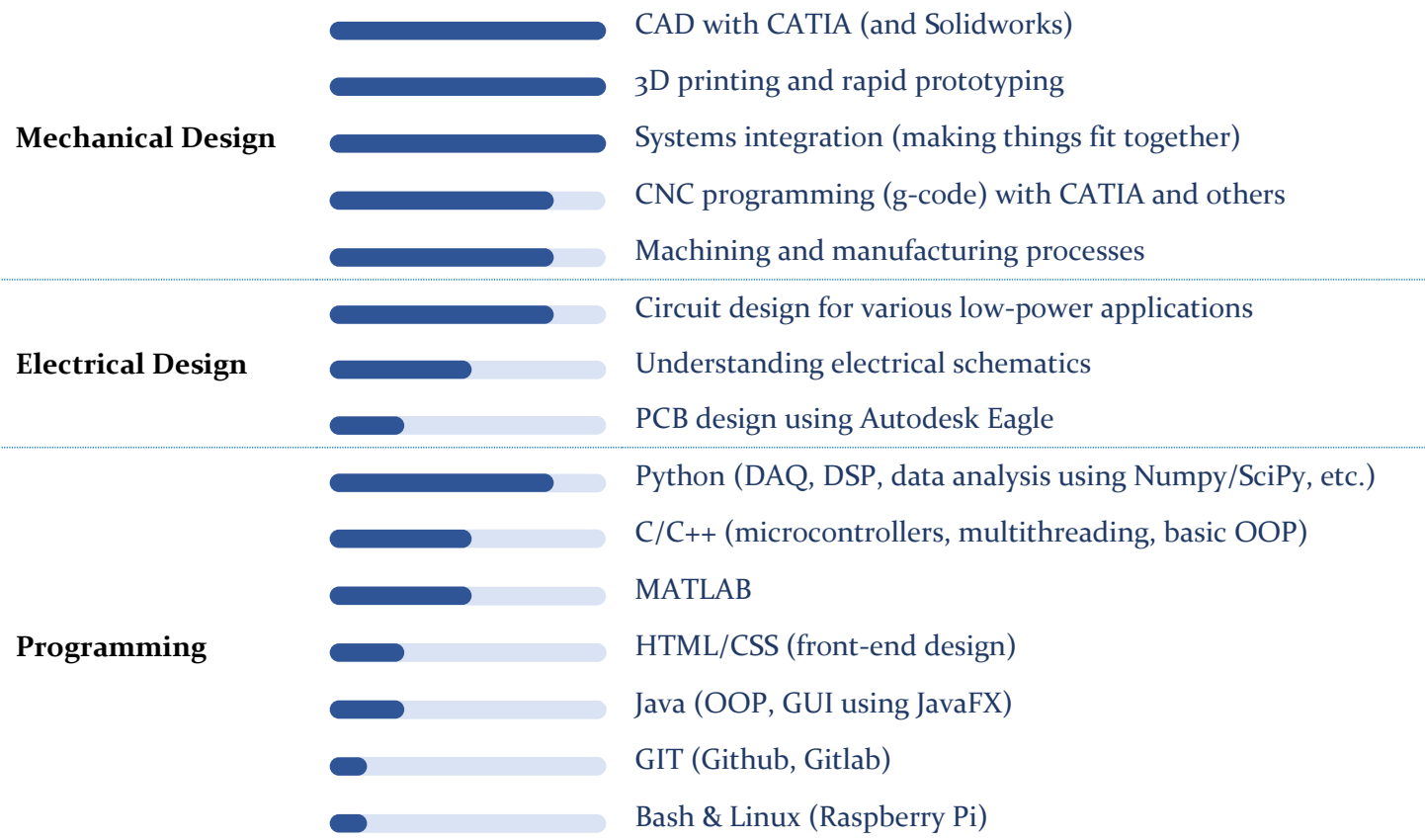
Education

Université de Montréal	**Certificate in Applied Informatics**, 30 credits	Graduation expected in 2024
Polytechnique Montréal	**Master with thesis (M.Sc.A.)** in Mechanical Engineering, 45 credits	Graduation expected in February 2022
	Development of an active carrier for the braiding of composite materials Patent in progress and publication expected in summer 2022	GPA 3.57/4.00
	Bachelor in Mechanical Engineering (B.Eng.), 120 credits	September 2019
		GPA 3.14/4.00
	Three times recipient of the UPIR scholarship for the initiation to the research field of study	
École Nationale d'Aérotechnique	**Technical College Degree (DEC)** in aerospace engineering	May 2015
		R Score 30.99

Work Experience

Mechanical Engineering Intern GLP Hi-Tech, St-Jean sur Richelieu	• 3 axis CNC programming using CATIA v5 • Update the machine tooling database and support the CNC programmers • Tests validation of an automated CAM algorithm that generates the tool path based on the feature recognition of the parts	Summer 2018
Mechanical Engineering Intern Bombardier Aerospace, Pointe Claire	• Make 2D drawing on CATIA and incorporate revision changes • Incorporate the revision changes in Enovia and ensure the signature process of the newly created drawings • Support of the various design projects in the team	Winter 2017

Skillset

Mechanical Design

- CAD with CATIA (and Solidworks)
- 3D printing and rapid prototyping
- Systems integration (making things fit together)
- CNC programming (g-code) with CATIA and others
- Machining and manufacturing processes

Electrical Design

- Circuit design for various low-power applications
- Understanding electrical schematics
- PCB design using Autodesk Eagle

Programming

- Python (DAQ, DSP, data analysis using Numpy/SciPy, etc.)
- C/C++ (microcontrollers, multithreading, basic OOP)
- MATLAB
- HTML/CSS (front-end design)
- Java (OOP, GUI using JavaFX)
- GIT (Github, Gitlab)
- Bash & Linux (Raspberry Pi)

Interests

Learning new programming skills

Data acquisition, management and sharing

Fascination for the Internet of Things

Fascination for machine learning algorithms

Fascination for robotic arms and CNC machines

Love working in a multidisciplinary team

Hobbies

Flying drones and filming beautiful scenery

Pilot planes in a simulator using a VR headset

Build robots and machines with my 3D printers

Play water-polo

Play strategy games and board games

Compose electronic music on my computer