Christopher Julien Stocker | EN-FR-SP-GE

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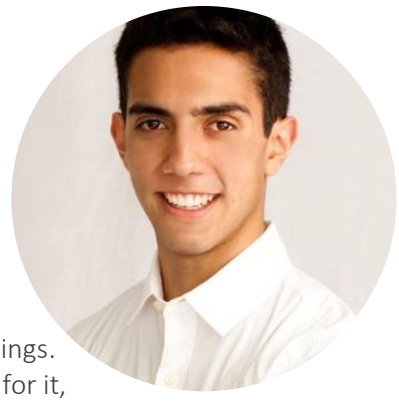
https://christopherjulien.github.io/ThisIsChris.github.io



Driven to bring robotic automation and autonomy to solve sustainability and industry problems. Expertise in mobile robotics, robotic programming, and data in Internet of Things. I bring a multicultural and multidisciplinary approach to problem solving. If there's time for it, you'll find me adding smart relays to my house, in the mountains or flying my drone.

WORK & ENTREPRENEURIAL EXPERIENCE

Jan 2024 – Present	Entrepreneurial Innovation and Prototyping *Dedicated the past year to entrepreneurship, focusing on prototyping, ideation, and hands-on development of innovative business concepts. Collaborated with SRL to apply for an SNSF BRIDGE grant, proposing a soft robotics solution for underwater munitions removal.*
Jun 2023 – Dec 2023	Research Scholar at Harvard University's Bertoldi Lab Group *Developed, and automated testing on novel analog fluidic computations systems for soft robotic. Assembled computing device, and integrated CAD pieces and 3D printed parts. Calibrated sensors, and scripted custom hardware software. Validated our physical build against numerical model.*
Jan 2023 – Mar 2023	Volunteer Research Assistant at RSL – Autonomous River Cleanup *Worked on robotic manipulation with Nvidia's Isaac Gym/Sim environments, and setup docker-containers to facilitate Nvidia environment and hardware setup.*
Sep 2022 – Dec 2022	Mechatronics Engineer Intern at Pors & Rao *Coded, and tested Maxon motor control for improved position and velocity command via CANopen modules. Collaborated cross-functionally to integrate mechanical, electrical and software component securing redundancies and ensuring reliability for high-profile robotic art exhibitions.*

EDUCATION

Sep 2020 – Dec 2023	MSc in Mobile Robotics Minor in Data in Internet of Things, EPFL, Switzerland – 5.23/6 Master Thesis: *Analog Fluidic Networks: Towards computational non-electronic systems – 5.75/6* Semester Project*: Sensor fusion on self-reconfigurable modular robots – 5.75/6* Semester Project: *Combined Approach for Motion Learning and Obstacle Avoidance -– 5/6*
Sep 2016 – July 2020	BSc in Microengineering, EPFL, Switzerland
Sep 2019 – July 2020	Vienna University of Technology *Fellowship with Movetia awarded on first year academic marks.*
Sep 2003 – July 2015	Alliance Academy International School, Quito Ecuador *Class President, awarded "Outstanding Senior" for exemplary leadership and academic excellence.*

SKILLS

Coding Libraries: *Pandas, Numpy, Matplotlib, Pandas*
Programming Languages: *Python, C/C++*
Developing Tools: *Docker, IsaacSim, Gazebo, ROS1, ROS2, CUDA*

Embedded Systems: *Arduino, RaspberryPi*
Presenting Tools: *LaTex, PowerPoint, Microsoft Excel*

Fluent in English, Spanish and French, and proficiency in Swiss/German(B2).

EXTRACURRICULAR ACTIVITIES

2023 – 2023	Harvard's GRID innovation seminars hosted by Harvard Business School professors
2019 – 2020	HOLA - (Founder & President) – First Association for Latin Americans at EPFL. *Member recruitment, events organization, corporate management, intra-university collaboration, club representation, budget management*
2021 – 2022	EY's Chase the Case Finalist and Monitor Deloitte's Case Challenge Finalist
2021 – 2022	The Consulting Association member *(EPFL association)*
2018 – 2019	The Finance Association member *(EPFL association)*

ATHLETIC ACTIVITIES

Harvard's Rhino League Volleyball Champion, Boston Half Marathon, Tennis USTA-4.5