

Patrick Benito Eberhard



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Education


ETH 2023-2025
ETH Zürich
MSc in Robotics,
Systems and Control


 2022
**Massachusetts
Institute of
Technology**
Exchange semester

ETH 2019-2022
ETH Zürich
BSc in Mechanical
Engineering

Experience

ETH 2023
**Teaching Assistant for Signals and
Systems**
ETH Zürich
Teaching Assistant for Dr. Andrea Carron about
discrete time-systems. Responsible for holding
recitations and developing coding exercises.


 2022-2023
Software Developer
Vivuca
Creation of a company demerger webapp tool for
companies such as ABB.

 2021-2022
Focus Student and Supervisor
e-Sling
Full-time development of a four-seater electric
aircraft and a hydrogen fuel cell power train.

ETH 2022
**Teaching Assistant for Quantum
Mechanics**
ETH Zürich
Teaching Assistant for Prof. Norris about the
Schrödinger equation, operators, approximation
methods and other fundamentals of quantum
mechanics.

ETH 2021
Teaching Assistant for Dynamics
ETH Zürich
Teaching Assistant for Prof. Kochmann about the
dynamics of systems of particles, 2D and 3D
motion of rigid bodies, vibrations and waves.

ETH 2020-2021
Teaching Assistant for Mechanics
ETH Zürich
Teaching Assistant for Prof. Mazza (Mechanics I)
and Prof. Mohr (Mechanics II) about the fields of
kinematics and statics of particles.

 January 2020
Internship
Bitron
Five-week internship at a manufacturing company
of mechatronic devices and systems for the
automotive industry.

 August 2019
Scientific Expedition
Instituto de Astrofísica de Canarias
Observation of the Perseid Meteor Shower with a
research team in Oukaimeden (Morocco).
Measurement of the shooting stars using the
parallax method and further estimation of their
altitude, speed, angle of incidence and trajectory.



2017-2019

Joves i Ciència

Fundació Catalunya La Pedrera

Science scholarship for spanish high school students. Specialization in astrophysics and publication of a paper about gravitational waves.



August 2018

Young Brainport Summer School

Brainport Eindhoven

Scholarship offered to international students to dive further into engineering and physics applied to the industry. Visiting of multiple companies such as Phillips or ASML.



July 2018

Ruta de las Estrellas

Instituto de Astrofísica de Canarias

Scientific program offered by the Institute of Astrophysics of the Canary Islands at the Teide Observatory. Analysis of asteroid light curves to determine the rotation period and shape of celestial bodies.

Projects

2021-2023

Intralink

Intralink

Creation of an automated reservation method for restaurants and small businesses via WhatsApp.



2016-2019

Mealcheck

Development of a web application for meal plan management of student houses. The software was sold the Sonnegghaus.



2016-2019

Mydomotik

360° of domotic control in private houses and companies. Automated control of blinds, curtains, lights, plugs, and other electronic devices through a mobile phone, tablet or web page.

Languages

German (Native)



Spanish (Native)



English (C2 Proficiency)



Catalan (Native)



Italian (Beginner)



Licenses & Certifications



June 2019

C2 Proficiency (English)

Cambridge Assessment



June 2019

C1 Goethe-Zertifikat (Deutsch)

Goethe-Institut Barcelona

Honors & Awards



April 2023

Excellence Scholarship and Opportunity Programme

ETH Zürich



September 2020 and 2023

Outstanding D-MAVT Bachelor Award

ETH Zürich



June 2019

Price for the best Matura diploma

Swiss school of Barcelona