



Arthur Fender Coelho Bucker

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WORK AND RESEARCH EXPERIENCE

Carnegie Mellon University — Researcher Intern

May, 2020 - Oct, 2020

Robotics Institute Summer School

Conducted 2 researches at AirLab CMU on the field of AI and Robotics.

Achieving 2 publication at IEEE - ICRA 2021: "Coordinating Multiple Aerial Cameras for Robot Cinematography" (1st author) and "Learning semantic control space for expressive robot cinematography" (2nd author).

International Product Development | Finland

Aug, 2018 - May, 2019

pdp course

Technical leadership on an interdisciplinary group of 8 master students from USP and Aalto University (Finland) for the development of a Hydro Acoustics Localization and Communication System for Divers. The project, sponsored by SAAB, was developed with a budget of €10.000 .

CITI USP, Brazil — Research intern

Aug, 2018 - Present

CITI (Interdisciplinary Center of Interactive Technologies)

Applying concepts of distributed networks and swarm intelligence in embedded systems for sea turtle life monitoring and organic sensing. The project is being developed in a partnership with project Tamar.

Grupo Turing, Poli Usp — Head of project management

Feb, 2018 - Aug, 2018

— Group member (Jan, 2017 - dec, 2020)

A group with the goal of studying, applying, and disseminating Artificial Intelligence Knowledge.

Managed the group members on the development of several AI projects. As a group member, I led or participated in projects on fields of computer vision (Hepatic carcinoma outcome prediction, Brazilian sign language simultaneous translation), Natural Language Processing (political thermometer of Brazilian Politicians on social media), and Evolutionary Algorithms (autonomous players of Pong and Tetris).

Skyrats, Poli Usp — Member

Oct, 2017 - Sep, 2020

Group of Autonomous drones design.

Responsible for developing computer vision and AI solutions for embedded systems and autonomous Drones. In addition to working on the hardware and electronics design.

Captain of the indoor team at IMAV 2019 Madrid - International Micro Air Vehicle Competition.

AB InBev, Brazil — Summer intern

Jan, 2018 - mar, 2018

Worked for 2 months with computer vision solutions for product identification, Business Intelligence and predictive analytics at the Logistics and Distribution Center of AB InBev.

OTHER PROJECTS

LinkedIn: <https://www.linkedin.com/in/arthur-fender-bucker-b084b8133/>

GitHub: <https://github.com/buckerman> | BitBucket: <https://bitbucket.org/ArthurBucker/>

EDUCATION

Technische Universität München

M. Mechatronics and Robotics
oct, 2020 - Present

Escola Politécnica da Universidade de São Paulo

B. Mechatronics Engineering
Jan, 2017 - Present

BEST AT

Artificial Intelligence, Robotics, Data science, Mechanical design, Electronic design, Programming, Origami

AWARDS

Fellow at Fundação Estudar

Leaders program

(approval rate = 0.05%)

Summer Exchange in China on the Seeds for the Future program (Huawei)

1st place at CLAPP (Latin

American Design & Prototype Competition)

Winning Team at Hackathon

Ambev (Hack the World 2017 SP)

Best project award and Team

leader at PACE POLI USP 2017

Competition (1st out of 200 teams)

A representative of the State of

São Paulo at the national stages

of the Brazilian Robotics

Olympics

(team leader 2015 & 2016)

Silver medal in the national stage

of the Theoretical Robotics

Olympics (2016)

Team gold medal at the

"International Olympiad

Mathématiques sans frontières"

(2016).

LANGUAGES

Portuguese - Native

English - Fluent

German - Intermediate

French - Basic