Andreu Gimenez Bolinches

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Still trying to save the world?

I want to invest my time in projects that can make a better place to live for the current and future generations. Either by seeking more efficient and sustainable solutions to actual problems or by developing technologies that intend to restore the damage we cause to the environment. I am a fast learner. Many of my programming skills are self-taught. That gives me an edge in time-limited problems like hackathons and sprints. I am a team player. Neither handball, business, nor competitions can be won alone.

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Object oriented programming

Mainly Python, JavaScript and C++. With projects like a Telegram controlled Spotify connected alarm clock in a Raspberry Pi, a personal website and a C++ library and python extension for audio processing. I include basic CI/CD in my projects to automate tedious development tasks like building binaries or deploying the built application.

Computer-Aided Design

UAV parametric design with Fusion 360 which was later built and flown. Integrated the computation of the static longitudinal stability analysis in the CAD software, which accelerated the whole decision-making process.

Simulation

Using industrial software like Star-CCM+ for Computational Fluid Dynamics, Ansys Mechanical for Finite Element Analysis and Computer Aided Manufacturing with Fusion 360.

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B.Eng. Aerospace Engineering

Universitat Politècnica de Valencia 2015 - 2019
- Hackathon Castellon 2017: AI-Machine Learning challenge winner and most popular project
- EOGU: James Dyson Award national finalist; Climate Launchpad national winner; StartUPV winner in the Advanced Idea section

Embry-Riddle Aeronautical University Exchange 2018
- Involved in the AUVSI SUAS competition with the robotics student association

Hogeschool van Amsterdam Exchange 2019
- Thesis: Design, Build & Fly an Unmanned Aerial Vehicle that is capable of flying a predetermined route and drop a small payload

M.Eng. Automatics and Robotics

Warsaw University of Technology 2020 - 2021
- Human-robot interaction, haptic and collaborative robots

M.Sc.Eng. Advanced Robotics

Keio University 2021 - 2022
- Concurrent Computing in Robotics
- Thesis: Acoustic Odometry

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- Spanish (Native)
- Catalan (Native)
- English (Fluent, TOEFL 99 IBT)

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ProntoPro

Marketing Automation Specialist Part-time 7 months
October 2020 - April 2021
- Database automations with sqlalchemy and pandas with integrations of different marketing tools
- Automated testing using pytest and Gitlab's CI/CD
- Projects manager and support to a small team of engineers

Marketing Automation Engineer 5 months
May 2020 - September 2021
- Web scraping and data processing with pandas
- MySQL database development
- Tech support and team management
- SEO and reporting operations automation with Google Apps Scripts

Junior Marketing Automation Engineer 6 months
November 2019 - April 2020
- Automation of SEO tasks with Google Apps Script
- Full stack web development with Django and React
- Junction Hackathon 2019: Winner of the Effective Radiation Therapy Plan Review challenge

Stadler Rail Valencia

Software Engineer Part-time 6 months
September 2018 - Feb 2019
- Matlab Software development with GUI
- Predictive Maintenance

References on request.