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# Adriano Jucan

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## EDUCATION

### University of Essex

*Bachelor of Engineering, Robotic Engineering*

Colchester, UK

Oct. 2019 – July 2024

### National College "Petru Rares"

*Mathematics and Informatics*

Suceava, RO

Aug. 2015 – May 2019

## EXPERIENCE

### Programming Assistant — Intern

*Primagra Romania*

May 2022 – Oct 2022

*Suceava, RO*

- Developed Python software for data management.
- Built a SWAT Risk Management App using React.js and Firebase.
- Created catalogues, brochures, presentations, and graphical data representations.

### First Tech Challenge — Designer, Robot Driver

*National College "Petru Rares"*

2018 – 2019

*Suceava, RO*

- Designed 3D mechanical components using SolidWorks.
- Drove the team robot in regional and national competitions.
- Collaborated with the team on task distribution, project planning, and creativity.

## PROJECTS

### Data Glove Capstone Project | *ESP32, Unity, C#, Blender, IMU and Flex Sensors*

Oct 2023 – June 2024

- Developed a data glove with 5 flex and 9-axis orientation sensors to capture and augment user hand movements in real-time using a rigged virtual hand model.

### CRM - Primagra Romania | *React.js, React Native, Redux Toolkit, Node.js, SCSS*

Jan 2023 – July 2023

- Developed a new internal application interface for web and mobile using React.js, React Native, Redux Toolkit, and Node.js.

### RC Flying Wing Plane | *C++, nRF24, Arduino NANO*

Feb 2021 – June 2021

- Built an RC foam plane using nRF24 antennas, servos, Arduino UNO, brushless motors, and local materials.

### Animated LED Panel for a Local Pub | *Arduino UNO, C++, WS28XX LED Strip*

Dec 2021

- Designed and built a 6x5 meter LED panel for a local pub ceiling using 300 meters of WS2811 LED strips, controlled by a custom central power box with multiple animations.

### Robotic Arm | *Arduino Uno, Servo Motors, C++*

2017 – 2018

- Created a robotic hand using 5 servos, strings, and cardboard, controlled by an Arduino board.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++/C#, SQL, JavaScript, HTML/CSS, Dart

**Frameworks:** React, React Native, Node.js, Redux Toolkit

**Developer Tools:** GitHub, Firebase, VS Code, PyCharm, IntelliJ, Jupyter

**Libraries:** Ros2, CV2, NumPy, Matplotlib

**3D modelling:** SolidWorks, Unity, Blender, 3D Printing

## OTHER

### Pre-Settled Status & NINO

**Languages:** English (Advanced), German & Japanese (Beginner), Romanian (Native)

**Driving License**