# Andres Salazar

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## Profile:

Electronic engineer specialized in AI and adaptive systems at the University of Sussex. Expertise lies in developing and applying machine learning algorithms and data processing to solve complex problems. Strong technical background complemented by exceptional analytical, technical and communication skills gained through my degree and work experience. Seeking to contribute to software development projects with a fast-paced organization.

## Education:

### 2023 – 2024. University of Sussex. Artificial Intelligence and adaptive systems MSc.

Modules include:

- Programming through python
- Machine learning
- Adaptive systems
- Intelligent systems techniques
- Image processing
- Applied natural language processing
- Mathematics for complex systems

### 2015 – 2021. Universidad de Ibague. Electronic engineering.

## Work experience:

**AI and electronics engineer, Eluxevo Limited, Brighton, UK,** September 2024 – Present.

- Development of software for novel AI models and algorithms.
- Design of the embedded system electronics and control software. This includes the control of, and data gathering of, the embedded control system.
- Design and development, including, but not limited to testing, safety, quality, cost and time management, and ethics.
- Ensure that design and development is anchored to the business strategy and target user/stakeholder requirements; determined through research into identifying those requirements, the technology capabilities and limitations, and the project funding budget and timeframes.
- Collaborate with the project team to facilitate the achievement of objectives; identify, reduce and pro-actively mitigate risks; optimize activities to align with the strategic objectives of the business.

**Lead campus coordinator, Kiwibot, Medellin, Colombia – Ohio, USA,** August 2022 – December 2022 (Full time).

- Responsible for the start-up of campus operations (University of Findlay, Ohio, USA).
- Point of contact with the customer at the university.
- Lead the operations and logistics team for the designed area. (Findlay, Ohio, USA).
- Management of the human talent for the execution of the operation.
- Management of the resources available for the execution of the operation.
- Planning and execution of Kiwibot brand at the University.
- Incentivizing the use of the service through marketing campaigns.
- Oversaw the deployment of the robot fleet on campus and around the city.
- Development and administration of the Kiwibot website (Non-code with Shopify and WordPress) at the University.
- Robot fleet maintenance.
- Data area support.

**Research assistant, Universidad de Ibague, Ibague – Colombia,** January 2020 – March 2021

- Research assistant in a project exploring rice crops prediction methods using imaging.
- Processed information related to the yield of a rice crop.
- Defined descriptors for yield prediction based on reflectance and thermographic maps.
- Mapped the defined descriptors and constructed the database for the regression system.
- Developed and validated performance prediction algorithm based on machine learning.

**Additional skills and achievements:**

- Second place winner at Universidad de Ibague research week as speaker with the research work "Yield prediction system in early stages of rice crops based on multispectral, RGB images and machine learning techniques".
- Multiple participation in the exhibition of electronic engineering works. (Robotic arm, teleoperated car and voice assistant for home automation).
- Extensive IT skills including Microsoft Office.
- Proficiency in Python, TensorFlow, Google Cloud, Pandas, Numpy, Arduino, NLTK, Scikitlearn, Git and GitHub.
- Familiar with C++, Java, MATLAB and Linux.
- Completion of the "General training program (cycle 1, 2, 3 and 4B) in Mision TIC programming skills with focus on mobile applications development with an intensity of 800 hours.
- **Graduate** visa until November 2026.

**Hobbies:**

- Brazilian jiu jitsu purple belt and part Brighton BJJ School team.
- Brighton AI meetings.
- Power lifting enthusiast.