

Sebastian Barrufaldi

Electronics & Automation Developer

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Location: Manhattan, NY

PROFESSIONAL EXPERIENCE

SBETECHS – Personal Startup (2016 – 2023)

Electronics & Automation Developer

- Designed and built custom electronic systems for automation and control.
- Programmed microcontrollers, PLCs, HMIs, and smart sensors.
- Directed industrial automation projects.
- Optimized processes through real-time object detection with computer vision.
- Developed wireless communication and IoT systems.
- Designed and implemented smart traffic light systems
- Websites, WebApp, and software development.

Multimedios S.A.P.E.M. (2022 – 2023)

Technical Systems Specialist

- Configured and operated technical systems for live communications.
- Integration of control systems and communication networks.
- Advanced technical support during live transmissions.
- Optimization and maintenance of broadcast equipment.

Electro Misiones S.A. (2021 – 2022)

Technical Solutions Specialist

- Providing technical consulting on electronic and electrical solutions.
- Analyzing and optimizing electrical projects to meet client requirements.
- Troubleshooting and resolving technical issues in commercial environments.

Coop. Agrícola de la Col. Liebig LTDA – Playadito (2020 – 2021)

Maintenance & Automation Lead

- Automated production processes and implemented new control systems.
- Increased packaging speed by 25% through process optimization of packing machines.
- Designed and built labeling machines and custom automation equipment.
- Developed WebApps for ticketing, maintenance and inventory management.
- Improved packaging quality and process efficiency through computer vision systems.

Centro de Desarrollo e Innovacion Tecnologica – CeDiTEC (2018 – 2019)

Project Lead

- Directed sustainable projects focused on automation and energy efficiency.
- Integrated solar and IoT-based systems for real-time monitoring and control.
- Developed custom hardware and software for energy optimization.
- Implemented WebApps for resource management and performance tracking.

EDUCATION

Instituto Politecnico San Arnoldo Janssen (2012 – 2017)

Associate Degree in Electronics

- Best Thesis of the Year Awardee

CERTIFICATES

Microchip Master's Conference (2015)

LED Lighting Technologies

Microchip Master's Conference (2018)

Internet of Things (IoT)

Microchip Master's Conference (2017)

PCB Design & Production