

Elisson Rodrigo da Silva Araújo

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Computer Engineering undergraduate with hands-on experience in wireless communication systems, embedded development, and robotics research. Skilled in designing and implementing custom wireless protocols using WiFi and NRF24 modules for real-time, low-latency applications. Proven track record in R&D projects, team leadership, and participation in international robotics competitions.

EDUCAÇÃO

Universidade Federal de Pernambuco
Undergraduate in Computer Engineering
Expected Graduation: Jun/2026

ETE Professor Lucilo Ávila Pessoa
Technical Degree in Computer Networks

SKILLS

Programming Languages: C/C++, Python, Java, Haskell, Verilog, Golang, Shell Script.
Technologies / Tools: Qt5/Qt6, OpenCV, Mbed, Arduino, CMake, Docker, Azure AD,, Protobuf, Git/Github, Github Actions, Pandas, MongoDB, SQL Server, OpenCV.
Core Knowledge: Communication Protocols, Embedded Systems, Wireless Networks (WiFi, NRF24), Computer Vision, Autonomous Robotics, Algorithms and Data Structures, Autonomous Robotics, Distributed Systems
Soft skills: Clear communication, Problem Solving, Teamwork.

EXPERIÊNCIA

Researcher - RobôCIn (UFPE Robotics Team) **JUN/19 - AGO/2025**

- Designed and implemented embedded systems with custom wireless communication protocols, using NRF24 and WiFi modules.
- Developed bidirectional communication software for closed-loop mesh systems in autonomous robotics applications.
- Led technical teams in research and development projects involving real-time systems, computer vision, autonomous behavior and distributed systems
- Integrated hardware and software components to optimize real-world robot performance under low-latency constraints

Research and Development Engineer - TOTVS **APR/2023 - SET/2023**

- Contributed to the development and modernization of the base libraries for proprietary languages (ADVPL, TL++).
- Ported codebase to support ARM architecture and ensured compatibility across Linux and Windows platforms.
- Participated in development workflow improvements using Docker and conducted cross-platform testing.

VOLUNTEER EXPERIENCE

Technical Referee in First Lego League (FLL) **FEB/16 - JUN/17**
Technical Referee in Brazilian Robotics Olympiad (OBR) **AGO/18 - AGO/19**
Teaching Assistant in FENECIT **AGO/16 - AGO/17**

AWARDS

- Gold and Silver medal at **Pernambuco Astronomy and Astronomy Olympiad** **2015, 2016**
- State Medal of Merit at **Brazilian Robotics Olympiad** **2016**
- 3th Place at **Inatel Robotics Cup - IEEE Very Small Size Soccer** **2020, 2023**
- 1st Place at **Inatel Robotics Cup - IEEE Very Small Size Soccer** **2021, 2022, 2023**
- 4th Place at **Latin American Robotics Competition - IEEE Very Small Size Soccer** **2020**
- 1st Place at **Latin American Robotics Competition - IEEE Very Small Size Soccer** **2021, 2022**
- 1st Place at **Latin American Robotics Competition - RoboCup Small Size League** **2023, 2024**
- 1st Place at **Brazilian Simulated Robot Soccer Championship - IEEE Very Small Size Soccer** **2022**
- 1st Place at **RoboCup - Small Size League (division B)** **2023**
- 4th Place at **RoboCup - Small Size League (division A)** **2024**
- 3th Place at **RoboCup - Small Size League (division A)** **2025**