

Implementation of Open-Source Technology to Accelerate the Development of Industrial Automation in Paraguay

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Abstract

This article discusses the feasibility and/or benefits of developing and assembling open-source PLCs that are low cost, comparable to those already used in industrial automation, with a modular, simplified architecture and expansion capabilities.

Our goal with this project is to design a functional open-source PLC. We believe that, with enough help from the open-source community, it will become a low-cost solution to accelerate industrial development and production in underdeveloped countries.

Keywords

PLC; Open PLC; Automation; MODBUS; Open source

Biography

Nicolas Ferreira is an undergraduate student at the Mechatronics Department in Universidad del Cono Sur de las Americas. He has worked as a research assistant for 3K Engineering consulting firm in Asuncion, Paraguay. His skills in the use of simulation software were useful during his internship at the Paraguay Space Agency

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