García Girón Maximiliano José Andrés

Advanced Student in Mechatronics Engineering

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ABOUT ME

Highly motivated and curious professional looking for new opportunities to grow in experience, proactively applying innovative and creative solutions in engineering and working with other professionals in the same area of expertise while learning from them.

EDUCATION BACKGROUND

2011-present: Mechatronics Engineering/Universidad Nacional de Cuyo. (46/48 courses passed)

2010-2011: Civil Engineering/Universidad Nacional de Cuyo.

2004-2009: Pharmacy and laboratory technician/College 4-013 Doctor Bernardo Houssay.

WORK EXPERIENCE

2019- present: STEM teacher for kids and teens in Cerebro Curioso.

2009: Supervised professional practice in clinical analysis laboratory/Health care center number 2 “San Antonio” Mendoza.

2008: Supervised professional practice in pharmacy/ Health care center number 2 “San Antonio” Mendoza.

SKILLS

- C, C++, C# and Java Programming.
- Usage of Matlab and Simulink in design and modelling of mechatronics systems.
- Automatic systems design and modelling, including mechanical, electric and electronic components.
- Arduino, PIC and industrial PLC programing.
- Knowledge in artificial intelligence training and designing.

LANGUAJES

- Native spanish speaker.
- Intermediate English speaker with proficiency in technical language.

COMPLETED STUDENT PROYECTS

- Multiaxis controller communicating PIC and Arduino with use of ultrasonic sensors.
- RAM simulator using multithreading and SDL2 libraries for C++.
- Trajectory generator for six DOF robot model ABB IRB140 for welding.
- Simulation and design of triphasic servomotor control system.
- Simulation and design of automaton control system for container crane with two independent actuators for PLC under the IEC 61131 standard.
- Object classification through simple perceptron neural network.
- Navigation system design including IMU and incremental optical encoders with the application of a Kalman filter.
- Design of control interface with simulation for mobile robots using Unity and Arduino.