KELVIN JARAMILLO

PROFILE

Mechanical Engineer with good experience in electronics and programming. Strong foundation in with MATLAB, Simulink, python and java. Good understanding of sensors, motor drivers and computer vision.
I offer a good understanding on how the mechanical, electrical and software domain must be synchronized in time to form part of a system

INFO

Address: Stationsplein 13, 7551 CN Hengelo
Marital status: single
Nationality: Ecuadorean
Date of birth: 02-June-1997

CONTACT

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https://kelvin-jara.github.io/website/

INTEREST

- ROS (Robotic Operating System)
- Brushless motors (controllers and drivers)
- Dynamic/Mechatronic systems
- Design and prototype
- Logic coding for robotic systems
- Embedded systems

EDUCATION

University of Twente
2019-2021/07
Bachelor Mechanical Engineering
Holland International Study Centre
2019/01 – 2019/06
Foundation Year

SENESCYT Scholar
2018
Obtained a 960/1000 in the standard university entry test, which gave me the chance for a Full scholarship for my bachelor

PROJECTS EXPERIENCE

Mirror-manipulator
Feedforward control-Precision mechatronic system with an elastic guidance (leaf springs)-SOLDIWORKS for designing and Simulink for developing controllers

Robot to travel through maze
PID controllers **-** Distance sensors for self-guidance

Server-client Collecto board game (JAVA)
Client-Server Socket communication ○ Given SERVER and protocol to connect-UML diagrams for designing program

Collecto board game with PYTHON and OpenCV
MinMax algorithm-Game developed with PyGame library-OpenCV to interact with game-multithreading used for synchronization

Robotic serial manipulator for SPE
2 DOF robotic manipulator with electromagnetic end effector. User interface with Unity to pick objects to be moved from one location to another. I made the controllers, design, prototype, software for communication and trajectory generation.

Cable driven robot for SPE
The 2 DOF parallel robot with electromagnetic end effector. To move objects over the table more efficiently than the serial type of robot above.

NOTE: for more information and projects please check my website.

SKILLS

Programming: Good foundation and experience in: PYTHON/ JAVA/ MATLAB. Read and understand C#, JavaScript/html, C++ & C
Modelling: I have made multiple projects (simple and complex shapes) using SOLIDWORKS.
Sensors/ Circuits and Electronics: good understanding and experience of the electrical domain after a 10 week course with practical exercises for sensors (distance, force, capacitive, resistance, motor drivers) and 1st and 2nd order electric circuits (amplifiers and filters).

Language: Spanish(native), English(fluent) & (learning Dutch)