KELVIN JARAMILLO

PROFILE

Junior Mechanical Engineer with experience in rapid prototyping and designing in SOLDIWORKS. Strong foundation in programming with MATLAB, Simulink, python and java. Understanding of sensors, motor drivers and computer vision.

Enthusiastic person robot manipulators and quadruped robots. Looking for staring a career in robotics development.

CONTACT

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HOBBIES

Work in personal projects involving hardware and software.
Research about personal interest: ROS, Three JS-PyBullet (Javascript), quadruped robots.

EDUCATION

SENESCYT Scholarship
2018
Obtained a 960/1000 in the standard university entry test, which gave me the chance for a Full scholarship for my bachelor
Holland International Study Centre
2019/01 – 2019/06
Foundation Year
University of Twente
2019-2021/07
Bachelor Mechanical Engineering

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 (PYTHON) with OpenCV integration
MinMax algorithm-Game developed with PyGame library-OpenCV to interact with game-multithreading used for synchronization
Robotic manipulator for SPE
Robotic toolbox for trajectory generation-Socket communication to connect to Unity 3D environment-PID controller for 2 DOF robotic manipulator (DC motors, Incremental encoders)

SKILLS

Programming: Good foundation for: PYTHON/ JAVA/ MATLAB. Languages used for project: C#, JavaScript/html, C++ (Arduino)
Modelling: SOLIDWORKS for modelling and SIMULINK for numerical simulations
Sensors/ Circuits and Electronics: 10 weeks course with practical exercises for sensors (distance, force, capacitive, resistance) and 1st and 2nd order electric circuits.