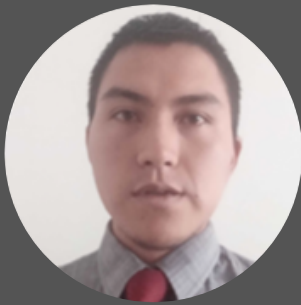


Jonathan Vargas

**ELECTRONIC AND
CONTROL ENGINEER**



Profile Summary

I am 27 years old engineer, and I am self-taught person. I love disrupt technologies and how they can be used in order improve societies.

Interests

- Entrepreneurship
- Innovation
- Technology

Contact



www.jonathanvargas.ml

Work Experience

FREELANCE

----- | MAY 2018 - PRESENTE

- Augmented reality Android apps (Unity)
- Software development for embedded systems
- Front-end developer React & React Native
- IoT and Robotics systems using ROS and MQTT

RESEARCH ASSISTANT

ESCUELA POLITÉCNICA NACIONAL | ABR 2016 - 2018

- 3D Reconstruction and processing
- GUI design and point cloud processing algorithms.
- Handling of sensors and embedded systems
- Desktop applications develop in Linux environments

INTERN

KEYCO | JUN - AGO 2015

- PCBs assembly for elevators
- Help in electronic develop area

Education

ESCUELA POLITÉCNICA NACIONAL (2011-2018)

ELECTRONIC AND CONTROL ENGINEER

- Electrical and electronic systems
- Embedded systems
- Automation and control techniques

INSTITUTO NACIONAL MEJÍA (2005-2011)

PHYSIC AND MATHEMATICS

Extracurricular Activities

MEMBER

ROBOTIC CLUB | AGO 2014 - FEB 2018

- Design competition robots
- Train new members in programming skills
- Coordinate work groups

INSTRUCTOR

AGORA PROJECT (FENCE-EPN) | NOV 2016 - MAY 2018

- Train blind people in basic computation.
- Prepare text material of JAWS software for training

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Skills and Abilities

- Advance English
- Programming languages (C, C++, Java, Js, PHP, python)
- Docker containers and Git
- Linux
- Unity3D
- Parallel programming with multi-threading
- WordPress develop
- Embedded systems software develop
- AWS Services (EC2, S3 y Route 53)

Expertise

- Augmented reality
- Develop in Linux environment
- Android Mobile applications
- Embedded systems (Arduino, Raspberry pi and Jetson)
- 3D Reconstruction with stereoscopic cameras

Knowledge

- Blockchain
- Web applications (React and React Native)
- Artificial vision
- Python for data science
- Robotics
- Electrical and electronic systems
- Electronic control

Accomplishments

- Augmented reality app for Android "Lev3D"
(https://www.obsequios3d.com/?page_id=1076)
- Augmented reality christmas app for Android "Nav3D"
(<https://www.obsequios3d.com>)
- Design and implementation of a prototype of detection and location of obstacles through three-dimensional reconstruction through the use of a stereoscopic camera(<http://bibdigital.epn.edu.ec/handle/15000/19155>)
- Publication "The Nearest Object Localization Through 3D LIDAR Reconstruction Using an Embedded System", in XXVII Jornadas de ingeniería Eléctrica y Electrónica de la Escuela Politécnica Nacional. (Noviembre 2017)