

ANDRE NICOLAI GUTIERREZ BAUTISTA

MECHATRONIC ENGINEERING



Contact information:

andreguba111@gmail.com

Tláhuac, CDMX.

PROFESSIONAL OBJECTIVE

Been an internationally professional competitive person, honest, capable of develop and apply solutions with high quality standards and innovation in software development, automation, instrumentation, design and the join of this ones, contributing with the continuous evolution of the enterprise.

EDUCATION

Mechatronics Engineering with a 9.51 grade average.

Universidad Nacional Autónoma de México, Engineering Faculty.

August 2015-July 2020.

EXPERIENCE

Systems development, Electronic Instrumentation of Spacial Systems Laboratory (LIESE); Engineering Faculty, UNAM — December 2019-August 2020

Responsibilities and developed activities:

- Leader and responsible of a three person team for testing communication between sensors and microprocessors through serial protocols (I2C, SPI and UART).
- Low level programming for microprocessors
- Leader of the mechanical-electronic design and implementation.
- Development of graphical interfaces for remote systems monitoring.

ACHIEVEMENTS

In charge of flight software development for the Cemanahuatl team in the *CanSat Rusia 2019 Competition*

Nominated and 2nd place for the students of the year, 2019 (UNAM).

Winner of the Exhibition of Electronic Engineering Projects, 2019. For the design and construction of a graphic system for remote monitoring in real time.

Winner of the Expo DIMEI 2018-1. For a motion detection system by artificial vision to generate movements in a remote control cart from human movements.

Expositor at the "Stereon Maker Space" opening night.

Former vicepresident of the aerospace association of the faculty of engineering (2018-2019).

LANGUAGES

- Spanish: Native
- Inglés: B2 level. 80% speaking, writing and listening.
- Alemán: 20% speaking, writing and listening.

SKILLS

- Programming: C, C++, C#, Java, Python, Mathematica, iOS apps with swift and Web Development with HTML5, JavaScript y CSS3.
- CAD/CAM: Autodesk Inventor, Autodesk Moldflow, Autodesk Fusion 360, Solid Edge, NX, conventional manufacture and computer assisted manufacture.
- Otros: PLC programming, microcontrollers, serial communication, VHDL, circuits design and Microsoft Office softwares.

STRENGTHS

Responsible and committed to work, honest, proactive, adaptable, with learnability, good for working as a part of a team. I am looking for continuous improvement and perfection.

REFERENCIAS

- Dr. Saúl De La Rosa Nieves.
Laboratorio de Instrumentación Electrónica de Sistemas Espaciales, edificio P, cubículo P3-12.
Teléfono: 56223131.
Correo electrónico: saulrn7@comunidad.unam.mx