

Alberto Isaac Barquín Murguía

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Academic history

- 2014- **MSc. in Space Technology**
University of Würzburg, Germany (1st semester)
Luleå University of Technology, Sweden (2nd semester)
Université Paul Sabatier Toulouse III, France (3rd semester)
- 2008-2012 **Mechatronics engineer**
National Autonomous University of Mexico
Faculty of engineering
Thesis: *Implementation of a controller in a commercial quadrocopter*
Developed custom firmware in C++ in order to implement both
higher order sliding modes controller and observer

Professional experience

- September 2013-May 2014 **Brigadist at Lab for Mexico City**
as part of the project Code for Mexico City, partner with Code for America. Worked on <http://www.verificalo.mx> a site that helps car users in Mexico City to fulfill their obligations
- August 2012-February 2013 **Computer technician**
Part time job at Deportes Martí
- May 2012-November 2013 **Social Service**
National Autonomous University of Mexico
Mechanical Design and Technological Innovation Center
- 2007 **Internship**
240 hours. Technical assistance department of
Mexican National Petroleum Company (PEMEX)

Languages

- Spanish:** Native
- English:** Advanced
TOEFL IBT: 102
- German:** Advanced
Last coursed level: C1

Knowledge and technical skills

- Programming languages
Python, PHP, C/C++, C#
- Operating systems
GNU/Linux, Windows
- Mathematical software
MatLAB/Simulink. Maple
- Other software
Git, OpenVPN, Office

Volunteering and Personal projects

- As a volunteer renovated a school house at Skolgården, Skinnskatteberg, Sweden; planted crops and cared for animals at Liedtke Farm, Leipzig, Germany; receptionist at Fabrizio's Terrace hostel, Barcelona, Spain.
- Image processing and Computer vision: image compression with uneven pixels, generate images with genetic algorithms, face recognition, character recognition through a neural network, image improvement using Python.
- House automation system using a custom made HTTP server to control a house model through a microcontroller. Python and C++ used for programming.
- Turned and carved chess set