

# Manuel Parra Zúñiga

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## EDUCATION

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- **Universidad Católica del Norte** Antofagasta, Chile  
*Bachelor of Computer Science Engineering* *March. 2003 – December. 2009*

## EXPERIENCE

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- **ALMA Observatory** San Pedro de Atacama, Antofagasta  
*Software Engineer* *November 2009 - November 2015*
  - Maintain the continuous operation of the observatory performing tasks like install the new software versions, investigate software bugs with external developers.
  - Test the new features in the ALMA software focussing in the Control and Correlator subsystems.
  - Lead software developer for the antenna's receptor.
  - Occasionally lead the software team and attend to science and engineering meetings to report the status of the software bugs.
- **Cerro Armazones Observatory** Cerro Amarzones, Antofagasta  
*Software Developer* *December 2008 - September 2009*
  - Update components over ALMA Common Software (ACS) from ACS 4.0 to ACS 9.1.
  - Update the C++ code standards from C++03 to C++11.
  - Develop code for the mount, CCD camera, rotators, weather station and create the user interfaces to perform scientific observations using those devices.

## SKILLS

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- **C++:** Write and maintain code for hardware devices used in ALMA observatory, lead programmer for the antenna's receptors devices.
- **C:** Maintain kernel modules code used in ALMA observatory, basic knowledge of RT-Preempt.
- **Java:** Maintain code for ALMA's observing modes (business logic). Development of personal projects with Build Tools (maven), ORM frameworks (hibernate) and RPC framework (ICE).
- **Python:** Development of scripts to help the science operation in ALMA observatory. Code for graphical user interface using Qt tools.
- **Development Tools:** Integrated Development Environment (IDE) mainly Eclipse, a basic knowledge of Netbeans. Version Control System like CVS, SVN, GIT, etc. Network Management System like Zenoss, Cacti and Nagios.
- **Operating Systems:** Advance user experience in GNU/Linux distributions like Redhat, Debian, Gentoo, etc.