

Pasieka Manuel

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Nationality: Austrian

Date of Birth: 25 June 1984



Personal Statement

I am looking forward to work in a team with highly skilled individuals that are supporting each other to achieve a common goal. Where it is highly valued to learn and discover new things, share their ideas and dreams with one another and work together to build a better tomorrow.

Strength

Independent, communicative, interested in theories and concepts, endurance

Interests

Data Analysis, Machine Learning, Pattern Recognition, Cognitive Science, Software Development, Artificial Intelligence, Image Analysis, Intelligence Augmentation, Modeling, Graph Theory

Education

Master of Parallel and Distributed Computing

Sep. 2010 – Sep. 2012

Universidad Politécnica de Valencia (Polytechnic University of Valencia)
Valencia, Spain

(Master Thesis: Peer selection and Bandwidth allocation methods in BitTorrent Systems)

Master of Computational Intelligence (unfinished)

March 2009

Technische Universität Wien (Technical University of Vienna)
Austria

Vienna,

Bachelor of Science – Computer Science

Oct. 2005 – Feb. 2009

(Bachelor Thesis: Course Timetabling using Constraints satisfaction programming)
Vienna, Austria

Technische Universität Wien (Technical University of Vienna)

Work Experience

Scientific Software Engineer @ Life Science Research Institute

December 2012 – currently, Vienna

BioComp / Vienna Biocenter Core Facilities (Vienna BioCenter)

Our facility is providing software development, data analysis and bioinformatics services to different research groups inside and outside of the Vienna BioCenter. For my part, I am responsible for scientific software development, data analysis and HPC software infrastructure management. That includes extending software and hardware of laboratory equipment, image analysis, Unix system administration and different areas of data analysis and data visualization.

- Software Development in Python, R, C/C++, Matlab, Qt, ROS
- Image Analysis
- Data Analysis and Data Visualization
- Electrical Tinkering
- Galaxy HPC Infrastructure
- Basic understanding of neuroscience

Curriculum Vitae

Software Engineer @ University Research Group

July 2012 – Sep. 2012, Valencia

Robotnik Automation, SLL in cooperation with IDF (UPV Valencia)

- Design and development of a Pedestrian and Vehicle Simulator using Stage Simulator
- Implementing the Simulator as a ROS (Robotic Operating System) package
- Integration into SafeBus Visualization

Research Assistant @ University Research Group

Oct. 2011 – July 2012, Valencia

Universidad Politécnica de Valencia, Instituto de Diseño y Fabricación

- Design and developing an OpenGL based Visualization for the SafeBus Project using the OGRE Framework
- Creation of vehicle models for the Gazebo Robot Simulator
- Integration into the ROS (Robotic Operating System)
- Creating of Linux Force Feedback ROS node in order to provide haptic Feedback Drivers

Software Engineer @ University Research Group

July 2011 – Oct. 2011, Valencia

Instituto de Diseño y Fabricación (IDF) , (Institute of Design and Manufacturing) Ciudad Politécnica de la Innovación , Universidad Politécnica de Valencia

- Developing of an OpenGL ES Visualization for an industrial vehicle simulator
- System configuration and adaption of the visualization to an ARM embedded system board
- Integration into ROS in order communicate with different simulator components

Embedded System Engineer @ Startup

Nov.2007 – Aug. 2010, Vienna

Adaptiva GmbH

- Developing of embedded systems for very low power wireless Sensor networks
- Design and development of Drivers, HAL (hardware abstraction layer) and system functions for different 16-Bit based SOC (System on Chip) platforms
- Developing of RF based (433Mhz, 2.4 Ghz) communication layers (mainly OSI Layer 2 and 3)
- Implementing of sensor data preprocessing and filtering algorithms
- Developing of ARM Cortex 9 based bridge systems interconnecting sensor networks and middleware

Curriculum Vitae

Database Developer Internship

July. 2007 – Sep. 2007, Vienna

UPC Telekabel Wien GmbH

- Developing of MS SQL Database scripts
- Porting of scripts from the DTS to the newer SSIS system

System Administrator

Feb. 2006 – Oct. 2006, Vienna

FairWork Personal management GmbH

- Maintenance of IT Infrastructure
- Customer and Employes Help Desk

Call center customer service representative

Aug. 2004 – Sep. 2004, Vienna

Telebiz GmbH

- Responsible for outbound customer support
- Performing product satisfaction quality of service controlling

Summer Internship

Aug. 2003 – Sep. 2003, Vienna

Siemens AG

- Responsible for maintaining Siemens sport Infrastructure

System Operation Internship

July 2003 – Aug. 2003, Vienna

RIZIT – Raiffeisen Informatik GmbH

- Performing periodic service and maintenance operations on industrial printing machines
- Working in cycling night and day shifts

Warehouse Clerk Internship

July 2002 – Aug. 2002, Vienna

Hilti Austria GmbH

- Incoming shipment control
- shipment storing and retrieval

Project Assistant Internship

Aug. 2001 – Sep. 2001, Vienna

Siemens AG

- Assisting project members and management

Warehouse Clerk Internship

Aug. 2000 – Sep. 2000, Vienna

Hilti Austria GmbH

- Incoming shipment control
- shipment storing and retrieval

Open Source / Public Activities

Movescount at [http://www.movescount.com/es/members/member1767754-Patata Blanca](http://www.movescount.com/es/members/member1767754-Patata_Blanca)

GitHub at <https://github.com/mapa17>

Bitbucket at <https://bitbucket.org/mapa17>

ORCID at <http://orcid.org/0000-0002-4906-7981>

Skills & Competences

Language Competence

- Native in German
- Advanced in English
- Intermediate in Spanish
- Beginner in Serbian

Technology Skills

- More than 10 years of programming experience with C and Python
- Multiple years of experience with Matlab, R
- Experience in applying Machine Learning Techniques, Supervised and Unsupervised learning
- Modeling, Inference and descriptive statistics
- Basic Experience with OpenGL
- Basic Experience for development on mobile platforms (Android, Windows CE)
- Basic Experience with Rubby, Scala and Assembler
- System and network administration of Linux Systems as well as cross platform developing
- Basic Experience with ROS (Robotic Operating System)

Additional Skills

- Driver's License A and B