

abdelhak BOUGOUFFA

Interests in Research, Robotics, Embedded systems, Distributed systems and Real-time systems



infos

i Abdelhak BOUGOUFFA, born on 2 June 1992, Single
Serious, ambitious, organized, dynamic, collaborative
work, reliable and has a sense of responsibility.

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<https://abougouffa.github.io>



ID: A3E1AC37
GnuPG

volunteer activities

Active member of the open source community and a contributor to many open source projects.

September 2002-April 2018: Previous Boyscout (2002-2011), and Scout Leader (since 2011) [Wood Badge certified] at *Algerian Scouts*, participated in the organization of many national and regional scale events and activities.

August 2016: Represented Algeria in the Maghreb Cubs Camp (Scouts), Tunisia.

April 2013-June 2016: Teacher of Programming (using C and Python), GNU/Linux and free and open source culture at the Computer Sciences Club of the University of Boumerdes CiUB (*Club Informatique de l'Université de Boumerdes*).

December 2013-April 2015: President of the Computer Sciences Club of the University of Boumerdes CiUB.

studies

July 2017: Master in *Distributed Computing Systems* from the M'hamed Bougara University of Boumerdes (UMBB), Algeria.

Graduation project titled:

A Contribution to Simultaneous Localization and Mapping (SLAM) in an Unknown Urban Environment.

July 2015: Bachelor (Licence) in *Infotonics (InfoTronique) (Computer Sciences and Electronics)* from the M'hamed Bougara University of Boumerdes (UMBB), Algeria.

May-June 2012: Certified *Volunteer Rescuer (First-Aid Diploma)* from the *Algerian Civil Defence unit of Boumerdes*.

June 2011: High School Diploma (Baccalauréat) in *Technical Mathematics - Mechanical Engineering*.

experience

Since June 2018: Research Engineer within the Simu&Moto team, IFSTTAR, 14-20 Boulevard Newton, Champs-sur-Marne, France.

April-May 2018: Research Internship at the SATIE laboratory, École Normale Supérieure Paris-Saclay, Digiteo Labs, Le Moulon, Gif-sur-Yvette, France.

August 2017-May 2018: Research Engineer with the Robotics and Industrial Production division, NCRM (Navigation et Contrôle des Robots Mobiles autonomes) team, *Centre de Développement des Technologies Avancées (CDTA)*, Baba Hassen, Algiers, Algeria.

October 2017-February 2018: Substitute teacher (Practical courses of Robotics Intelligence module), *Saad Dahleb University of Blida*, Algeria.

February-July 2017: Final year internship with the Robotics and Industrial Production division, NCRM team, *Centre de Développement des Technologies Avancées (CDTA)*, Baba Hassen, Algiers, Algeria.

April 2012-January 2018: Freelancer at Upwork® [upwork.com/freelancers/~0182f6d9fd530162fb] (ex-oDesk®) as programmer, Linux systems administrator and free and open source solutions integrator with a 4.98/5.00 reputation.

languages

Arabic: Native speaker.

English and French: Fluent.

main skills

- **Operating Systems:** GNU/Linux (RedHat, Debian, ArchLinux...), MacOS et Windows.
- **Programming and system administration** of ROS (Robot Operating System).
- **Programming languages and frameworks:** C/C++, Python, C#, Node.js/JavaScript, OpenCV, CImg, Flask, GTK+, PyGTK, Qt, PyQt...
- **Embedded Systems Programming:** Assembly, Arduino, MikroC, FreeRTOS and mbed/mbed OS (worked with many microcontroller families including MicroChip, Atmel, ARM...).
- **Hardware Modeling:** using VHDL for FPGAs (Xilinx, Altera...).
- **Parallel programming:** using POSIX Threads and OpenMP on C and C++.
- **DBMS's:** SQLite, MySQL/MariaDB, PostgreSQL, MongoDB, Redis, LittleD...
- **Scientific languages and frameworks:** IPython (SciPy, NumPy, Matplotlib...), MatLab, Octave, Scilab and Maxima.
- **Code management tools and IDE's:** Git, Mercurial, QtCreator, Atom, VSCode, Visual Studio, MonoDevelop, Eclipse, Glade...
- **Integrating and maintaining the CMS's:** Wordpress, Joomla, Drupal, MediaWiki, OwnCloud...
- **Desktop and design softwares:** LaTeX, Microsoft Office, LibreOffice, OpenOffice.org, Scribus, Inkscape and GIMP.