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Summary skills

- I am studying Master in Artificial Intelligence.

- I have been working six years.

- I made my Engineer Thesis "Design of a platform to test distributed Control Systems" with special distinction.

- I have computer, communication and electronic skills.

- Programming skills from low level (microcontrollers, Real Time Operating Systems, Linux Kernel . . .) to high level (heuristic search, Knowledge-Based Systems, user interfaces, . . .).

Experience

- FACERAS, S.L.   Barcelona, Spain
  Software Designer & Systems Administrator & Project Manager   2010 − Actually

  - Design and implementation of a desktop program to read RFID cards.
  - Design and implementation of a distributed system along FACERAS buildings.
  - Embedded Systems: IGEPv2, Arduino, PLC Schneider, Mbed (Philips).
  - Operating Systems: Ubuntu, Debian, Poky Linux, Windows XP.
  - Programing languages: C, C++, Perl, Python, Bash, MySQL, PHP, Javascript, LaTeX.
  - Communications: ModBus, CAN, Serial RS232, VoIP.

- DN Electrónic 2002, S.A.   Martorell (Barcelona), Spain
  Installer & Technical Service Manager   2006 − 2010

  - Salesman, Purchasing agent, Technical Service Manager.
  - Electronic devices repair.
  - Installer of UHF, VHF and parabolic antennas, public address systems, Ethernet networks, alarm systems, electrical installations . . .

Education

- Barcelona School of Informatics at the Technical University of Catalonia   Barcelona, Spain
  Master in Artificial Intelligence   2012 − Actually

  - Learning new concepts of data mining, information retrieval, robotics and multi-agent systems.

- Barcelona School of Informatics at the Technical University of Catalonia   Barcelona, Spain
  College of Engineering, Technical Engineer in Computer Systems   2007 − 2012

  - Completed thesis "Design of a platform to test distributed control systems", within the Distributed Control Systems (DCS) research group at Automatic Control Department of the same university.
  - Project Manager of ten students group, in a project to implement an android software to detect high collisions in a car and automatic call with VoIP to the offices. And a web-page to administrate all collisions and world-map position of it.
  - Design and implement a web-page to search automatically RSS feeds with user specifications in Java language.
  - Design and implement a Linux based SO named ZEOS.
  - Created a Linux kernel module to intercept system-calls in a Linux 2.6 and a virtual device to interact with it.
  - Designed and implemented a Knowledge Based System, to recommend all kind of movies, documentaries and series in CLIPS language.

- – Designed and implemented a Local Search program to determine the best distribution of transport vehicles in a workweek with Simulated Annealing and Hill Climbing algorithms in Java language.
  - – Implement a mathematical phrase interpret and calculate in C++language.
  - – Design and implement a PHP and Javascript web-page of social network.

- **Escola del treball** Barcelona, Spain
  Superior-level Training Cycles in Development of electronic products $2004 - 2006$

  - – School-Company practices.
  - – Design and implement of a five-band operational amplified filter.

- **Col·legi la Mercè** Martorell (Barcelona), Spain
  High school degree in Scientific and Technological specialisation $2002 - 2004$

  - – Final project of Sub-atomic world and particle accelerators.

Core Technical Skills

Languages: ASM, C, C++, Java, Bash, Perl, Python, R, Matlab, CLIPS, PROLOG, SQL, PHP, JavaScript, LaTeX

Open Source Contributions: Tetris for Arduino and uOLED screen (4D Systems).