

Paul Becue

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Professional objectives

- My creativity as engineer flourishes in the embedded devices, being involved with:
 - Projects of embedded systems and/or Internet of Things.
 - AI projects image recognition, machine learning,
 - Embedded systems coupled with mobile clients and server software.
 - Python software development
 - C and C++ software development
- When you are looking for a person who has leadership capacities for making a good hard/software product or do a research for a proof of concept, I'm your man.
- I have 20 years of experience in leading and working with people.
- I'm eager to learn new things and technologies, I'm looking for a challenging job.
- I have experience with:
 - Linux and embedded Linux
 - C, C++, Python and even MicroPython
 - Basic knowledge of C# and .NET.
 - Processors: x86, x86-64, ARM, ESP32, all kind of microcontrollers
 - Front-end development, Back-end development, databases and servers
 - Network protocols, WiFi automatisation
 - Also experience with Java, PHP, SQL, Qt, Android, HTML, CSS, Javascript, jQuery, Bootstrap, Security, Git, Microcontrollers, Word, Excel, Adobe Indesign, Gstreamer, et all.
- And last but not least I am allways open for dialogue, new ideas and technologies.

Profile

Technical Expertise

- Master in engineering
- Knowledge of Linux, Windows, Embedded Linux, Android, iOS, Internet of Things
- Experience with Linux drivers
- Experience with Embedded Linux, Linux, Yocto, Buildroot, Android, ChromeOS, Embedded Windows
- Software development with Python, HTML, CSS, Javascript, jQuery, Bootstrap, MicroPython, Sencha, PHP, MySQL, MariaDB, PostgresQL, Gstreamer, Bash, Qt, C++, C, Java, C# and .NET
- App development with Cross Platform Tools and Android
- Development of Software Architecture.
- Web development
- Version control systems with Git and SVN
- Back-end development with embedded servers
- Polling and push systems, messaging systems with SIP, XMPP, MQTT and websockets
- Voice and video systems
- Hardware interfaces and software drivers to hardware interfaces in Linux
- Many years of experience with Windows systems and software

- Building, install and repairing PC's, embedded devices and microcontrollers
- Administration on Windows and Linux
- Experience with wired and wireless networks and all kind of protocols involved
- Test automation: building and maintaining real time test system and test software. Test automation in automotive industry.
- All kinds of simulation with Python, C and C++.

Human skills

- Leading a group of people and making a team from a group of individuals
- Listening to people
- Make people grow
- Training and coaching people

Career

- Embedded Developer 2020-2021
Marelec Nieuwpoort
 - Software for simulation of Marelec Portio for Sales department in C++/Qt
 - Setting up system for regression tests for software on Jenkins server in Python and Shell scripting
 - Setting up automatization and unification of software builds
 - Issue solving for Marelec embedded software in C
 - Research for future improvements for the embedded system
- Consultant 2015-2019
Verotech Leuven
 - Real time test system for controllers in the automotive industry - Dana Bruges
 - Development of hard- and software for an audio based embedded system in the agriculture sector
- R&D Engineer 2012-2015
Televic, Izegem
 - Base embedded linux system for Televic Plixus system
 - System for video broadcasting to Android device based on XMPP protocol
 - System for voice communication based on SIP protocol
- 7 years of freelance projects 2005-2011
 - System for remote control of church bells – embedded system – control over the internet
 - System for remote control over the internet of the heating of the church building
 - Webbased system for parish accountancy for multiple parishes with PHP and MySQL
 - System for digital signage in a church building with remote control over the network
 - Video surveillance system with internet coupling and mail warning
 - System for measuring the heating costs when renting a public space
 - System for fast control of the sound system, near real time control
 - Setting up web servers and mail servers
 - Building of embedded Linux systems en barebone embedded systems for these projects
 - Setting up refurbished computer infrastructure for a caritative project for a school in Mali.
- Parish Priest 1997-2012
Harelbeke
- Grootseminarie Brugge 1993-1997
- Candidature Unique en Philosophie 1992-1993
UC Louvain
- Assistant Electric Engineering 1989-1992
KU Leuven

○Field oriented system for high dynamic control of electric AC motor

Studies

- Burgerlijk elektrotechnisch-werktuigkundig ingenieur (richting elektrotechniek – optie elektronica: regeltechniek) – K.U. Leuven - 1988
- Candidat en Philosophie – Université de Louvain - 1992
- Sacrae Theologiae Baccalaureum – K.U. Leuven - 1996

Courses last years

- Embedded Linux System development Training, organised by Free Electrons - <http://free-electrons.com/>
- Fast Track to Sencha Touch organised by Sencha, Inc. - www.sencha.com
- Programming HTML5 Applications organised by U2U - www.u2u.net
- Learning .NET programming - lynda.com
- C# Essential Training - lynda.com
- C# Design Patterns - lynda.com
- Visual Studio Code for Python Developers – lynda.com
- Basisopleiding agenten stralingsbescherming klasse III toestellen
- DevOps in action: SD-WAN, Infrastructure as Code, GitOps and zero trust security
- CSS
- Javascript
- Bootstrap
- React

Read Books last years

- Gargenta, M., and Nakamura, M.. 2014. Learning Android - 2nd Edition. Sebastopol: O'Reilly Media.
- Roa S., 2012. Teach Yourself C++ in One Hour a Day - 7th Edition. Pearson Education, Inc.
- Downey A., 2012, Think Python. Sebastopol: O'Reilly Media.
- Bayle J., 2013. C Programming for Arduino. Packt Publishing.
- Banzi M., 2011. Getting Started with Arduino, 2nd Ed. Sebastopol: O'Reilly Media.
- Barnes D., Kölling, 2002 Objects First with Java. A Practical Introduction using BlueJ. Pearson Education, Inc.
- Saint-André, P., Smith, K. Et all, 2009. XMPP: The Definitive Guide. Sebastopol: O'Reilly Media.
- Downey, A., 2012. Think Complexity. Sebastopol: O'Reilly Media.
- Taymans, W., Kaker, S. Et all GStreamer Application Development Manual
- Fraser, N., 2009. Differential Synchronization.
- Yaghmour, K., Masters, J., 2008. Building Embedded Linux Systems. Sebastopol: O'Reilly Media.
- Hildebrandt, R., Koetter, P., 2005. Book of Postfix. No Starch Press.
- Lafore, R., 2002. Object-Oriented Programming in C++. Sams Publishing.
- Rohaut, S., 2009. Maîtrisez l'administration du système. Eni éditions.
- Salavador, O., Angolini, D., 2014. Embedded Linux Development with Yocto Project. Packt Publishing.
- Doug Hellman, 2018. Python Module of the Week.
- Dan Bader, 2018. Python Tricks.
- Rick Van Hattem, 2016. Mastering Python.

- Kurose, Ross, 2012. Computer Networking. A Top Down Approach.
- Jackson, W., 2012. Android for Absolute Beginners.
- Free Electrons, 2014. Embedded Linux system development.
- Robert Johansson, 2015. Numerical Python.
- Bill Lubanovic, 2014. Introducing Python.
- ...

Languages

- Active knowlegde of Dutch, French, English
- Passive knowlegde of German and classic Humaniora
- Knowlegde of Greek and Hebrew
- A year of study in French (Louvain-la-Neuve)

PC knowledge

- Office and OpenOffice
- IDE's Eclipse, Android Project, Qt Creator, PyCharm, Visual Studio
- All kinds of processing programs: photo, video, text, synchronization, servers
- System administration with Python.
- Linux desktop and Open Source alternatives for many software packages

Various

- birth place and date: Kortrijk, 9 augustus 1965
- driving license A and B

References on demand