

Mathieu Tanguy

Mecatronic Engineer



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About Me



Hello, my name is Mathieu. I live with my wife and kids near Nantes in France.

I'm a mecatronic engineer with over 14 years experience in industrial automation.

Since 4 years, I work as a technical office manager for B&R Automation.

I like to work on challenging projects, alone, or as a team. I don't give up so easily. I'm creatif and able to listen or understand needs which brings good working relationships with customers or colleagues.

Thanks to my experience working for an innovative supplier, I have a good overview on almost every domain of industrial automation. Even though I'm most skilled in:

Software architecture **Motion control** **CNC** **Robotic** **IEC 61131-3**

Projects

Linear transport system

Machine is fully **flexible** and **modular**. it can group different can sizes by 2, 3, 4 and more with almost no change over. On top of magnetic conveyor called **Acopotrak**. I used advanced **motion control** features such as encoder emulation, cam profile and cyclic positioning. I was involved at every project stage, pre-sales, prototype, until serial production. For this challenging project I had the chance to be in close cooperation with R&D and other services at headquarter.

Integrated robot

Comau Robot is controlled by the PLC and fully synchronized with the rest of the machine. Gripper follows the height of vertical conveyor while still placing bags thanks to a tracking feature. On top of this application, I implemented **PackML**. Project handover was then made easier.

CNC Machine

Machine cuts and machines aluminium or plastic profiles. **CNC** engine is integrated inside the main CPU that controls more than 30 another numerical axes. Customer could get rid of an expensive and non modular dedicated CNC controller. During this first project as application engineer, I improve my hard skills as well as my soft skills through a very high demanding customer coming from full CNC contoller to an integrated CNC kernel.

Experience

B&R Automation Technical Office Manager

Feb 2018 - Present (Nantes)
br-automation.com

After many years as application engineer, I got promoted as technical office manager. I lead up to 6 local application & support engineers in Nantes offices. My missions are to plan & prioritize technical actions while making sure my team members have enough skills to succeed. Even with this new responsibility, I'm still involved technically in complex strategic customer projects.

B&R Automation Application Engineer

Feb 2010 - Feb 2018 (Paris & Nantes)
br-automation.com

This position has been challenging for me as the spectrum is large:

- Remote and on-site technical customer support.
- Assist customer on his project from prototype phase to serial production.
- Hold customer and internal training.
- Participate to pre-sales project (presentation, hardware architecture, etc...).

I spend 2 years in Paris then I moved to Nantes office.

B&R Automation Training program

Sept 2009 - Jan 2010
(Eggelsberg, Austria)
Engineering Camp

B&R Automation is one of the most innovative company in industrial automation. Before joining french subsidiary, I attended an engineering camp among other talented young people coming from all over the world. I took the opportunity to perfect my knowledge in industrial automation while improving my english.

TECNAL S.A.

Automation design office
Sept 2008 - Aug 2009 (Niort)
Tecnal.fr

Tecnal is a specialist in dairy and cheese equipment. I worked as automation & adjuster technician. I was mainly on the field, either in France or abroad, learning on special machines in process industry.

Education

University of Poitiers

MSc in Industrial Automation & mecatronic

2005 - 2008

During my first year at University of Poitiers I deepened my basics skills. At that time, our teachers were mostly coming from research department called [PPrime](#). They were really dynamic and enthusiastic about mecatronic and especially skilled in medical robotic. I got really passionate too, that's why I specialized in mecatronic for the two last year of my master degree. Funny fact, I became teacher for a few days of my old teacher.

University of Lorient

BTEC in Industrial Maintenance

2003 - 2005

I learn basis on almost every domain of the industry as maintenance is a very large topic. I did an internship in an Automotive company called PSA Peugeot Citroen. My goal was to make preventive maintenance sheets as I was part of TPM service. But everytime I could, I was near machines, looking at the robot asking so many questions.

High School A.R. Lesage in Vannes

BD In Mechanical Engineering

2003

During my time at high school, I specialized in mecanics. I had theoretical courses such as Mechanical drawing, Kinematic, Electrical, etc.. And practical courses where I could use conventional milling, CNC and molding machines for the first time.

A Little More About Me

I like to spend time with my family and friends, it is a good way to switch off.

During my personal spare time, I have interests in domotic and IoT that brings me some basis knowledges on several domains like:

[Linux](#) [HTML](#) [Javascript](#) [Php](#) [Docker](#) [MQTT](#) [Git](#) [SQL](#)

Which are becoming more and more popular in industrial automation.

But I'm not staying in front of my computer all the time. I like to go running and sometimes mountain biking. As I'm not far from the ocean, SUP is an activity I do like during summer. My passion for music brings me regularly to concert and music festival. I used to be a football player for many years, still passionate but not practicing anymore.

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