

# Yassin Jomni

Independent researcher,  
Machine Vision &  
Embedded Systems  
Engineer, Author,  
Entrepreneur & Innovator

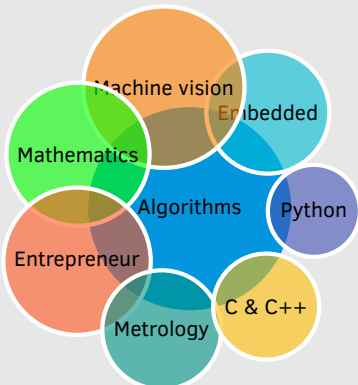
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## About Me

Yassin is an independent researcher, a problem solver, detail oriented and analytical person who thinks outside the box to find innovative solutions to difficult problems.

He has roughly 20 years overlapping experience in algorithm design & embedded systems engineering in both academia and industry. He has worked with system critical software in the health tech., automotive, aerospace & defense industries.

## Skills



## Languages

- Swedish: ●●●●●●●●
- French: ●●●●●●●●
- English: ●●●●●●●●
- Italian: ●●●●●●●●

## Education

- 2002 - 2006 **Ph.D. Industrial Electronics** LTU, Luleå/Sweden  
Research Topic: Improving Heat Energy Measurement Accuracy in District Heating Substations.
- 2002 - 2004 **Eng. Lic. Industrial Electronics** LTU, Luleå/Sweden  
Research topic: Improving Heat Energy Measurement Accuracy in District Heating Substations.
- 2001 - 2001 **Accelerator Physics & Instrumentation** CERN, Geneva/Switzerland  
Pre-PhD program for studies in Particle/Theoretical Physics at CERN.
- 1996 - 2001 **M.Sc. Eng. Physics & Applied Mathematics** LTU, Luleå/Sweden  
Undergraduate Studies in Engineering Physics with major in Applied Mathematics.

## Selected Work Experience

- Present **Co-Owner, Board member & CTO** OxyTemp AB, Stockholm/Sweden  
OxyTemp Sweden AB is a start-up developing cloud based software for intelligent temperature and oxygen saturation measurements for precision medicine.  
Yassin is leading the implementation of all necessary MDSW processes needed to meet CE-regulations.
- 2023 **Founder, Co-Owner & CEO** Zinnova AB, Motala/Sweden  
Yassin is conducting applied research in the field of Machine Vision and AI in Malaria diagnosis using Fluorescent Microscopy & Raman Spectroscopy methods.  
He has also developed an MVP of an offline Android mobile application for Malaria parasites detection and classification in digital images of thick blood smears (TRL 4).
- 2023 - 2023 **Head of Advanced Digital Technologies** Institute of AI & Robotics  
*Research:* Artificial Intelligence, Machine Vision, Fluorescence Microscopy & Raman Spectroscopy applications in the diagnosis of neglected tropical diseases such as Malaria, Visceral Leishmaniasis and Trypanosoma.  
*Teaching:* Lecturing in Computer Vision, Embedded Systems Engineering, IoT and Innovation.
- Nov 2020 **Software Engineer** Veoneer Sweden AB, Linköping/Sweden  
Yassin was part of the MCU team working with multiple assignments within embedded systems ranging from system architecture work to bootloader, functional safety and cyber-security software development.  
He has also provided technical leadership and support to several developer teams around the globe.  
He was member of a small code quality group responsible for reviewing and approving all code to be merged to ensure code quality requirements are met.
- Oct 2017 **Embedded Software Engineer** SAAB AB, Linköping/Sweden  
Yassin designed a contrast enhancing real-time algorithm for a system critical IR-camera.  
He developed a custom Embedded Linux OS for the onboard embedded computer.
- Feb 2017 **Process Expert/Owner** Autoliv Electronics AB, Linköping/Sweden  
Yassin was assigned as a process expert/owner for developing and maintaining several optical test systems for Autolivs high volume camera production line. He occasionally led a small group of 3 software engineers. Some data analysis and statistical modelling has been applied on camera production data to predict yield losses and attempt to detect product deviations at an early production stage.



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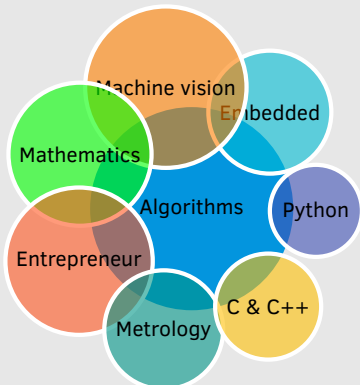
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- Frensh ●●●●●●●●
- English ●●●●●●●●
- Italian ●●●●●●●●

## Selected Work Experience

- Feb 2014** **Embedded Software Engineer** Ericsson AB, Kista / Sweden  
Yassin developed low level hardware drivers and apporntant test cases for firmware using MQX RTOS.
- Jan 2014** **Systems Engineer / Technical Coordinator** SAAB AB  
*Technical Coordinator:* Yassin worked with software requirements, design and implementation for a profiling tool for CPU-time measurements for kernel threads in embedded RT-Linux.  
*Systems Engineer:* Yassin had multiple assignments as a system engineering consultant for the aeronautics division for Gripen E/F (Level A software)
- Feb 2013**

## Entrepreneurship

- Present** **OxyTemp Sweden AB** Co-Owner, Board Member & CTO  
OxyTemp Sweden AB is a start-up developing cloud based software for intelligent temperature and oxygen saturation measurements for precision medicine.
- 2023**
- Present** **Zinnova AB** Founder, Co-Owner & CEO  
Zinnova AB is a start-up conducting applied research in Raman spectroscopy, Machine Vision & AI applications in Malaria diagnostics. An offline Andoid app that detects and classifies Malaria parasites in digital images of thick blood smears has been developed (TRL 4).  
Zinnova AB was semi-finalist in the *MIT Solve challenge* contest 2021 (Within top 60 in 1800 companies)
- 2022**
- 2016** **Z-Dev AB** Founder, Co-Owner & CEO  
Z-Dev AB offers state of the art consultancy services in Computer Vision and Embedded Systems Engineering.
- 2022** **BraceIT AB** Joint Owner & Board Member  
BraceIT AB is a startup company that aims to develop the first smart watch with a private secure cloud. Yassin has designed and implemented a graphics engine as well as a display simulator to demo the product for potential investors.
- 2015**
- 2009** **Modio** Founder, Owner & CEO  
Modio was founded to prototype and commercialize Yassin's research during his Ph. D. studies. His research resulted in, among others, two commercially applicable algorithms. An MVP prototype of an internet enabled intelligent heat-meter was developed.
- 2003**

## Selected Publications

Yassin has contributed with 12 scientific publications in total. Here is a selection:

- 2010** **Improving Heat measurement in Houses and Buildings** Book  
Publisher: LAP Lambert Academic Publishing, ISBN 3838312872
- 2006** **Improving heat measurement accuracy in district heating substations** Ph.D. Thesis  
Luleå University of Technology, ISSN 14021544 / ISRN LTU DT06/54SE / NR 2006:54
- 2004** **Improving heat measurement accuracy in district heating substations** Eng Lic. Thesis  
Luleå University of Technology, ISSN 14021757 / ISRN LTULIC04/38SE / NR 2004:38