

## Curriculum Vitae

### Personal information

First name / Surname

Address

Mobile(Italian)

E-mail

Social

Nationality

Date of birth

Gender

**Stefano Adami**



### Professional Profile

**Project Manager Executive**

### Work experience

April 2018 – Today

Address

Role

Main Business

**Marelli S.p.A**

Viale Carlo Emanuele II, 150, 10078 Venaria Reale TO, Italy.

<https://www.marelli.com/>

Project Manager electronics for Ferrai, BMW, Stellantis, SEAT Projects – R&D department.  
Automotive

April 2003 – April 2018

Address

Role

Main Business

**TEXA S.p.a.**

Via I° maggio 9, 31050, Monastier di Treviso (TV), Italy.

<http://www.texa.it/>

Project Manager	2011 - 2018	R&D department
Senior HW Developer	2006 - 2011	Gas equipment Business Unit
Senior HW Developer	2003 - 2006	A/C equipment Business Unit.

Automotive aftermarket

January 2001 - April 2003

Address

Role

Main Business

**LAE Electronic S.r.l.**

Via zona industriale 3, I-31046 Oderzo (TV), Italy.

<http://www.lae-electronic.com/>

Junior Hw/Fw developer engineer for HVAC electronic control systems.

Industrial controllers

December 1998 – December 2000

Address

Role

Main Business

**Seima Elettronica S.r.l.**

Via Prometeo Candoni 1, I-33028 Tolmezzo (UD), Italy.

Junior Hw/Fw developer engineer for rear lamps controllers and climate control ECUs.

Automotive

April 1997 – September 1997

Address

Role

Main Business

**ThermoKey S.p.a.**

Via dell'Industria 1, I-33061 Rivarotta di Teor (UD), Italy.

<http://www.thermokey.it>

Trainee

Industrial controllers

## Education and training

September 1997 – December 1998

Role

**Ministry of Defense**

Army Officer. Crew commander of anti-tank missile system.

October 1993 – September 1997

Title of qualification awarded

**“Università degli studi di Udine”**

Electronics Engineering Bachelor Degree

Principal subjects/occupational skills covered

Thesis Title: 'Controllo motori asincroni trifase in Fuzzy Logic', an example of application.

September 1988 – June 1993

Title of qualification awarded

**“Istituto Tecnico Industriale F. Solari”**

Technical High School Diploma

## Personal skills and competences

Mother tongue

**Italian**

Other language(s)

Self-assessment

European level (\*)

**English**

Understanding		Speaking		Writing
Listening		Spoken interaction		Spoken production
	C1 independent user		C1 independent user	C1 independent user

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Strong communication skills with a good leadership qualities, due to a proven experience in development management. Healthy and positive relationship management with customer stakeholders and company development team. Solution oriented approach using lateral thinking techniques and brainstorming meetings.

Organisational skills and competences

Ability to schedule the main project activities of a Project Life Cycle: kick-off meeting - preliminary analysis – hardware/firmware/software development – product approval plan – EMC compliance – pre-production functional testing. Experience to evaluate development costs, resources work costs, launch costs and risk analysis.

Good capacity to negotiate customer requirements, test plan activities management, work resources management, material lead time management.

My reference guide about Project Management is ISO 21500:2012 and Marelli Project Life Cycle guide.

Management Software skills and competences.

Expertise knowledge about MS Project / GanttProject 2.8 for electronic planning development.

Good experience about AS400 / AXAPTA / SAP for ERP software tool.

Good experience about Jira (Atlassian) / RTC (IBM) tracking activity software tools.

Base Experience about DOORS for customer requirements management.

Expertise knowledge about IQ-FMEA for systematic failure analysis.



Technical skills and competences	Knowledge acquired using the following hardware components in Embedded Systems.		
Hardware skills - Semiconductors	<b>Microcontrollers</b>	8 bit 16 bit 32 bit	Microchip 16C505 - rf PIC12F675 - PIC16F818 - PIC16F886 Renesas H8/3003 - H8/3048F Fujitsu MB90F598 - MB90F591 - MB90F342 - MB90F455 - MB90F562 STM Cortex M3 - M4 - STM32F103 - STM32F105R8T7 - STM32F407 - STM32F417 - STM32F427 - STM32F429 - STM32F415. Freescale MK10DX64VLH7, NXP FS32K116BRT0MFM.
	<b>Mem. EEPROM RAM Mass Storage</b>		M24C16MN6 - 24AA256 - AT45DB321D - DS2431 - S25FL116K0XNFI013 ISSI IS42S16400J-6BLI-TR MT28FW01GABA1HPC-0AAT - MT29F2G08ABAEAH4
	<b>SPI devices.</b>		ADS8344(AD) - LTC1859(AD) - ADS1231(AD) - AD5328ARUZ(DA) - TLC5925IDWR
	<b>I2C devices.</b>		DS1307Z - STMPE801 - PCA9554 - LTC2631ITS8(DA) - PCA9516AD - LSM330TR(ACC)
	<b>Analog devices</b>		AD623 - REF02 - OP07CN - LS204IDT - OPA2735AIDGK - TL064 - LMC6482IMM - OPA2333AID - TLV3501AIDBV - THS4521DGK - LMV762 OPA379AIDCKRG4
	<b>Communication Devices</b>		
	<b>CAN Transceivers</b>		PCA82C250 - TJA1054 - MC33901SEF
	<b>RS232</b>		HIN211ECA - MAX232ECWE
	<b>RS485 – RS422</b>		MAX1483 - DS26LV32ATM - DS2480B(1Wire) - L9613B (K/L line)
	<b>USB</b>		FT232BM - FT232RQ - VNC1L.1A
	<b>BLUETOOTH</b>		WT11 BLUEGIGA - WT12_A_AI3
	<b>RF433</b>		RXHRS24SFSK - RX MID 3V
	<b>GSM-GPRS</b>		WISMO Q2406B
	<b>ETHERNET/WIFI</b>		LAN88730 - WISMC01
	<b>Sensors</b>		
	<b>THERMOPILES</b>		XFPM-115KPA - FPM-02PG - MPXM2102-CNT
	<b>PYROEL. DET.</b>		2MQUAD - ST120Q
	<b>MEMS</b>		LRM-254-HGEI-11 - LIM-252-GH SPW2430HR5H-B(Mic.) - LIS3LV02DL - LSM330TR(Acc.) - MPL115A1(Bar)
	<b>Opto devices</b>		
	<b>Laser</b>		BPW21 - HLMP3950 - OPT101 - BPW 34S
	<b>Infra-Red</b>		PTL5 520 - PTL5 510 - QL65D6SA - DL-3146-151 NL5LNC - NM8ASC
	<b>Power Management</b>		MAX846AEEE - LTC3650EMSE - LTC2943CDD - LTC2952CF - LTC1760CFW – LTC3554EUD - LTC2943CDD
	<b>Power devices</b>		TRIAC T405Q - T435-800W
Electromechanical Parts	Knowledge of Vacuum Pumps, Industrial and Automotive Compressors, high pressure solenoids, stepper motors, DC motors, pneumatic actuators, silicone heating elements, PTC heaters, power contactors.		
Electromechanical Sensors	Knowledge gained with, pressure transmitters, weight scale, over-pressure switch.		
Electrical Equipment Regulations	Basic Knowledge of: IEC 60730-1:2013 Automatic electrical controls, general requirements. IEC EN 60335-1, Safety of household electrical appliances. IEC EN 61010-1, Electrical equipment for measurement, control, and laboratory use. ISO 13400-4:2016, Road vehicles – Diagnostic communication over Internet Protocol (DoIP) – Part 4: Ethernet-based high-speed data link connector.		
Firmware Skills	Development of basic firmware routines in order to test the main hardware functions implemented into the electronic boards.		



#### **Design activities as Senior Developer.**

- **2003 - 2005:** Analog and digital design for A/C recycling equipment. Load cells, pressure and temperature sensors processing with 16 Bit ADC and managed by a 16 Bit Fujitsu microcontroller MB90F591/598 using embedded peripherals I2C, SPI. Design an user interface with a 4x20 characters display, 16 keys keyboard and a wireless rf thermometer (rfPIC12F675 ASK configuration). Design of high power management using SIPO interface able to switch 12 TRIACS, 2 RELAYS for 230Vac loads.
- **2005 - 2007:** Design of a new release of an electronic board to analyse diesel exhaust gases. The digital core is a 32 Bit microcontroller STM32F103 ARM Cortex M3, with the following interfaces: RS232 - RS485 - FTDI USB2.0 - BlueGiga WT11i Bluetooth.
- **2007 - 2008:** Design of an Electronic board applied to an exhaust analysis chamber for gasoline engines. Infrared pulsed emission and 2MQuad thermopile signal acquisition through 24 Bit ADC. ARM Cortex M3 STM32F105 microcontroller based architecture. External interface via FTDI USB 2.0 and BlueGiga Bluetooth. Power management handled by LTC3650EMS Li-ion battery charger and LTC2943 as gas gauge monitor.
- **2008 - 2010:** Design of an RPM counter for light and heavy duty vehicle with the following EOBd protocol drivers: CAN - LIN - J1850 - K - L. The analog part provides to acquire the phonometric signal through a MEMS sensor related with a battery ripple signal. The digital core is represented by a 32 Bit microcontroller STM32F407 ARM Cortex M4.
- **2010 - 2012:** Design of A/C gas analysis chamber with an IR source and a 4 channel patented thermopile.

#### **Research&Development activities as Project Manager.**

- **2010 - 2011:** Silicon based infrared filter development in collaboration with JDSU (<http://www.jdsu.com/en-us/Pages/Home.aspx> ). Custom Thermopile development in collaboration with Dexter research laboratories USA (<https://www.dexterresearch.com/>). Spectral analysis done in collaboration with Padova University – Chemical Department.
- **2013 - 2014:** Nanoparticles measurement system based on multipath optical Laser Light (532 nm) system and Laser Light Scattering (635 nm) measurement. The validation and the compliance of the prototypes were certified by a National German Research Center PTB Physikalisch-Technische Bundesanstalt (<https://www.ptb.de/cms/en.html>) based in Braunschweig. The European project in which I was involved was "Particle Diagnostics research project ASA-PTB".
- **2014 - 2015:** Development and management of European project about remote telemetry, experimental application in collaboration with "POSTE ITALIANE".
- **2015:** Development of a disk brake profile LASER measurement system in collaboration with BREMBO (<https://www.brembo.com/en/>) and Ministero dei Trasporti MCTC (<https://www.mit.gov.it/>).
- **2016:** Development of a tyre profile LASER measurement system in collaboration with PIRELLI (<https://www.pirelli.com/global/en-ww/homepage>) motorsport division.
- **2017:** Co-founder of ADAS calibration Business Unit.
- **2018 - 2019** Development management of electronic rear lamp for Ferrari ( SF90, Monza Sp1, Sp2, Roma, Purosangue, 296 GTB )
- **2019 – 2022** Development management of rear lamp ECU for BMW (Serie 7) with Autosar RTOS inside and Can Bus network communication.  
Development management of LASER light modules for BMW ( Serie 4, M4 ). Innovation Project. Development management of SEAT CUPRA Leon and Formentor rear lamps via LIN bus network communication.

#### **Reverse Engineering experiences.**

- Technical analysis about calibration and control systems used by Volkswagen and Daimler Mercedes to verify the position ( yaw, roll, pitch ) and the sensibility of the thermographic camera used in night vision driving assistance.
- Technical analysis about calibration and control systems used by Volkswagen to verify the position and the behavior of the short-range (24Ghz) radar installed on vehicles.



Computer skills and competences	<p>Competent with most Microsoft programmes, some experience with Linux. Ability to use the company management software Axapta and below all the tools I normally use at work:</p> <ul style="list-style-type: none"> <li>- Altium Designer 15 – Schematic Entry – PCB router</li> <li>- DXD Designer Mentor - Schematic Entry</li> <li>- Expedition Mentor – PCB router</li> <li>- CircuitCAM 4.0 – Prototype PCB development</li> <li>- IAR Embedded WorkBench – Firmware development ( Assembly, C, C++ )</li> <li>- ColDE V2 – Firmware Development</li> <li>- STM32CubeMX</li> <li>- LabView 11</li> <li>- Matlab R2015a + Simulink</li> <li>- Filter PRO Texas Semiconductors – Analog filters simulation</li> <li>- TINA Texas Semiconductors – Functional simulation</li> <li>- Python 2.7 – Software development</li> <li>- Raspberry Pi 3B Model – experiences with free operating system based on Debian</li> </ul>
Other skills and competences	<p><b>2000</b> - Training course about: Machinery Safety Directive, 98/37/CE, Directive 93/68/CEE on 'CE' marking, EMC Directive 89/336/CEE. Directed and organized by Emilab Tolmezzo, <a href="http://www.emilab.it">http://www.emilab.it</a></p> <p><b>2009</b> – Corporate training course named "ISO 16949 Project" where I learned the topics below:</p> <ul style="list-style-type: none"> <li>- DFMEA - PFMEA</li> <li>- Total Quality Management</li> <li>- Control Plan</li> <li>- APQP – Advanced Product Quality Planning</li> <li>- PPAP – Production Part Approval Process</li> </ul> <p><b>June 2015</b> – Internal course about MID certification applied to Gas analysers and Opacimeters.</p> <p><b>April 2016</b> – Electronic technical leader for the company's intellectual property. Training course about <b>Patent</b> Information, <b>Patent Search</b> Strategies and Techniques. Directed and organized by "Studio Torta" Treviso, <a href="http://www.studiotorta.it">http://www.studiotorta.it</a></p> <p><b>May 2016</b> – Information Technology in AUTOMOTIVE Workshop Topics: CAN bus, CAN with Flexible Data rate , CANopen. Organized by Data Job <a href="http://www.datajob.com">http://www.datajob.com</a></p> <p><b>October 2016</b> – Contactless measurements. Workshop Topics: displacement and position measurement sensors, laser scanner, temperature measurement with thermographic cameras and bolometers. Organized by Luchsinger Italy: <a href="http://www.luchsinger.it/">http://www.luchsinger.it/</a></p> <p><b>September 2017</b> – Training course about ISO 26262 "Functional Safety Standard for road vehicles". <b>May 2018</b> -- ISO 26262 applied to Rear lamp projects and ECUs</p> <p><b>June 2020</b> – Training course (35h) about Project Management PMI – Prof. Tonchia University of Udine.</p> <p><b>October 2021</b> – Training course about A-SPICE process L1 / L2 and application within the Project Development Phase.</p> <p><b>October 2022</b> – On line Training course about "Elements of Artificial Intelligence". Basic and application knowledge to build own applications.</p>
Driving licence	Italian driving licence for cars and motorcycles ( A, B ).

**Additional information**

2004 – 2006 Held the role of company tutor in cooperation with the Padova University – Electronic Engineering Department.

2015 – 2017 I attend an English course ( pre-advanced level ) at high school in Treviso.

2017 Consultant at ANGLAT Treviso <http://anglattreviso.it/>

**Personal information**

I authorize the treatment of my personal data under the law D.L. 30 giugno 2003, n. 196, "Codice in materia di protezione dei dati personali" and Regulation (EU) 2016/679 about General Data Protection Regulation.

**Signature**A handwritten signature in black ink, appearing to read 'Stef Adami', written in a cursive style.