

KOTLAR Aurelian-Claudiu

Contact & Personal info:

Date of birth: 5 May 1982
Residence: Timisoara, Romania
Marital status: Married
Phone: +40 745 135 148
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Professional Experience:

Vitesco Technologies

present

Group Lead for Electrification

2018 - present

Preparing for future products, growing the new electrification and functional Safety teams.

Product Group Manager for distributed Function Control Units & Selective Catalyst Reduction (Continental)

2015 - 2018

Taking care of the distributed function control units product group. The product group SCR reached #1 in Europe sales.

Group Lead for Engine Systems, Hardware Customer Application & Electronic Platform (Continental)

2014 - 2018

Leading the Hardware Customer Application team, growing the team responsibilities to more than 10 projects within 8 OEMs.

Technical Lead – distributed Function Control Units (Continental)

2011 - 2014

Defining the generic product platform for distributed function control units.

Team Leader, HW design & Testing (Continental)

2007 - 2014

Leading the hardware test team, and rolling out the test tool and methodology world-wide (KOR – MEX).

Engine Control Unit Designer (Siemens VDO)

2005 - 2007

Electronic designer for Engine Control units, from project start to industrialization.

ATSR LTD Ireland (part-time job)

2010 - 2015

Hardware design consultant

Designing and prototyping electronics for emergency vehicles

Volunteer Experience:

Polytechnic University of Timisoara *2015 – 2019*
Coordinator for Formula Student team UPT racing team

Diploma coordinator at Continental Automotive *2006 – present*

Technical University Campus, Cluj-Napoca *2000 – 2003*
Branch Network Administrator

Tools / Skills:

Hardware skills: Analog / Digital Electronics, Measuring equipment

Software Skills: VBA for Excel, Electronic simulation, FEA simulation, GIT

Engineering tools: Eagle, PADS, Mathcad, IQ-RM DFMEA, Solidworks

Computer Tools: Data Analysis, Excel

Office Tools: Word, Excel, Powerpoint

Education:

Polytechnic University of Bucharest *2015 – present*
Centrul de Electronica Tehnologica si Tehnici de Interconectare
PhD thesis – “Electric Heated Catalyst Controller Design for Automotive Emission Control”

Technical University of Cluj-Napoca *2000 – 2005*
Faculty of Automation and Computer Science
Automation Department (Control Science)
Certificate - control science dipl. engineer
Diploma Thesis – Automation of water treatment plants

Cisco Academy *2005*
Completed CCNA curriculum, voucher eligible

Tiberiu Popoviciu High School, Cluj-Napoca *1995 – 2000*
Certificate – Software programmer analyst credential

Publications:

2017 40th International Spring Seminar on Electronics Technology Sofia

- A. Kotlar, P. Svasta – “Cooling Method for High Power Dissipation SMD packages”
- A. Kotlar, P. Svasta – “Protection Supply Circuit Design for Power Electronics in Automotive”

2017 IEEE 22th International Symposium for Design and Technology in Electronic Packaging (SIITME)

L. Molnar, A. Kotlar, P. Svasta, A. Gontean – “Simulation Model for Automotive High-Pressure Fuel Pump”

2018 IEEE 23th International Symposium for Design and Technology in Electronic Packaging (SIITME)

- L. Molnat, A. Kotlar, S. Lica – “High Power Switch using IGBT and GaN MOSFET Transistors”
- V. Iriciuc, A. Kotlar – “Sensor Monitoring System for Formula Student Car”

2019 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME),

Florin Berinde, Aurelian Kotlar – „Parametric conducted Filter Design for multi-phase DC/DC converters”

Patents:

Vitesco Technologies GmbH, DE102019203085A1 patent „Control device for actuating a load and method for operating such a control device”

Vitesco Technologies GmbH, US10681801B2 patent, „Mounting assembly with a heatsink”

Vitesco Technologies GmbH, Patent WO/2020/254366, „Exhaust Gas Aftertreatment System and Method for Controlling an Exhaust Gas Aftertreatment System of an Internal Combustion Engine”

Languages:

English - fluent in writing and speaking
French, German– basic understanding

Hobbies:

I am a maker: I own one CNC, one home-built CNC Router and a Lathe. I am interested in the nesting possibilities between art and engineering. I am good with carpentry, and I like electronics and mechanics.

Mountaineering, hiking, swimming, cycling, canyoning.