

Andy-Sorin Isfanuti

Nationality:



Gender:

✉ Email address:

🌐 Website:

📍 Address:

WORK EXPERIENCE

Algorithm and Calibration Engineer

Continental Automotive Romania S.R.L [03/06/2013 – 01/06/2016]

Address: Timisoara (Romania)

Calibrator for vehicle passive restraint systems (lateral airbags).

Function Developer

Continental Automotive Romania S.R.L [01/06/2016 – 06/2019]

Address: Timisoara (Romania)

Function developer for internal combustion engine actuators related functions (activities: requirement specification, function development, SW development, SW module test and function test).

Function developer

FEV ECE Automotive SRL [06/2019 – Current]

City: Timisoara

Country: Romania

Function developer for powertrain related functions.

EDUCATION AND TRAINING

Baccalaureate

Colegiul National Iulia Hasdeu [2004 – 2008]

Address: Lugoj (Romania)

Section: Stiintele naturii

Bachelor's Degree in Electrotehnics

Universitatea Politehnica Timisoara, Faculty of Electrotehnic and Electroenergetics [2008 – 2012]

Address: (Romania)

Main subjects were related to applications which use electrical energy.

Diploma Thesis: NdFeB versus Ferrite IPM-SM for low power applications.

Master's Degree in Electrotehnics and Power Electronics

Politehnica University Timisoara [2012 – 2014]

Address: (Romania)

Design and control of power electronics applications.

Advanced control of electric drives.

Dissertation Thesis: NdFeB versus Ferrite IPM-SM for low power applications: optimal design, FEM analysis and sensorless control.

PhD in Electrical Engineering

Politehnica University Timisoara [2015 – Current]

Address: (Romania)

Doctoral program subject: Design and control contributions to high efficiency Ferrite-PMSM drives for small compressors

The subject covers optimal design techniques (based on synchronous machine analytical or FEM models) for single phase/3 phase synchronous machines and study of sensorless control strategies.

The target applications are home appliances (e.g. refrigerator compressors, air conditioning compressors etc.)

LANGUAGE SKILLS

Mother tongue(s):

Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

JOB-RELATED SKILLS

Job-related skills

- good understanding of automotive SW development V-cycle
- basic knowledge of internal combustion engine operation principles
- good knowledge on vehicle dynamics physics, passive safety restraint system functionalities and signal processing
- good knowledge of Matlab Simulink model based function design patterns for automotive
- good knowledge of electric motors (DC brush AC brush-less synchronous motors) operating principles, mathematical models and control strategies
- good experience with Finite Element Analysis of electric machines (based on FEMM42™ Magnetostatic SW)
- average experience with optimal design process for permanent magnet synchronous machine (definition of objective function, constraints, selection and implementation of optimization algorithms).