

PERSONAL INFORMATION

Nikola Gmajnić

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Sex Male | Date of birth 17/10/1981 | Nationality Croatian

JOB APPLIED FOR

Entwicklungsingenieur Elektronik und Firmware

WORK EXPERIENCE

02/2015–Present

Embedded software developer

SES-Imagotag GmbH, Graz (Austria)

Main activities:

- Firmware development for 8-bit and 32-bit MCUs in C and C++
- Production ramp-up and support
- Product testing and qualification

Project examples:

- Electronic shelf label
- Access point for ESL systems

May 2010–Oct 2014

Research and development department manager

Mobilisis d.o.o., Varaždin (Croatia)

Main activities:

- Firmware development in C and C++
- Digital hardware development
- Project management
- Server and network administration

Project examples:

- Advanced GPS vehicle tracking and telemetry devices (www.mobilisis.hr)
- Controllers for salt spreading vehicles (www.rasco.hr)
- Magnetic sensors for vehicle detection (www.mobilisis.eu)

Apr 2008–May 2010

Hardware and software developer

WIM Systems d.o.o., Tmovec Bartolovečki (Croatia)

Main activities:

- Digital hardware development
- Firmware development for 8-bit microcontrollers in Basic, C and assembler
- Web application development and database design
- Server and network administration

Project examples:

- Web portal for GPS vehicle tracking
- GPRS telemetry devices for GPS vehicle tracking

Mar 2005–Apr 2008

Hardware developer

Delpro d.o.o., Varaždin (Croatia)

Working as student practice or apprentice.

Main activities:

- digital electronic development
- firmware development for 8-bit microcontroller in Basic, C and assembler
- software development in Visual Basic

Project examples:

- GPRS modem add-on board for telemetry
- CNC controller for knife cutting machine
- Remote controller for fishing tackle boat
- Tourist information panels

EDUCATION AND TRAINING

2001–2008

Bachelor of Electrical Engineering

University North, Varaždin (Croatia)

Automatic control and regulation of technological processes, measurement and acquisition process variables, PLC control technology processes, visualization of technological processes, management and control of electric drives, distribution and management of electrical energy.

1996–2000

High school degree

1. Gymnasium, Varaždin (Croatia)

- Mathematics and Natural Sciences orientation.
- Advanced courses in mathematics, physics, informatics.
- Participated on national competition in informatics, technical culture (robotics), innovations and logic, as well as international exhibitions of innovations.

PERSONAL SKILLS

Mother tongue(s)

Croatian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
German	B1	B1	A2	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- good communication skills gained as project leader and manager, communicating with other departments as well as other companies
- presentation skills gained on competitions and exhibitions as student, project presentation in company and teaching students

Organisational / managerial skills

- team leading and organisational skills gained as project and department manager
- this skills are also recognized in associations where I was elected as vice-president and secretary

Job-related skills

- advanced firmware development - experience in 8-bit and 32-bit programming in assembler, basic, C, C++ and embedded operating systems
- advanced digital hardware design - designed many different devices, mostly for telemetry and automation
- basic software development - programming in C# and VisualBasic
- organisation - proficiency in Jira issue management system and source control
- project management - participated in all phases in device development, from project definition, design, test, production, installation and user feedback
- quality assurance - ISO9001 internal auditor
- flexibility - worked on many different project types
- problem solving skills

Digital skills

- Operating systems - Windows, Windows Server, Linux, Mikrotik, DOS
- Firmware - IAR, GCC, Keil, Eclipse, CCS PIC-C, AVR Studio, FreeRTOS, uC-OS, Arduino
- Software - C#, VB, C++, Python
- Web - HTML, CSS, ASP.NET, Javascript, Joomla, Wordpress
- Database - MS-SQL, MySQL, MS Access
- Technical drawing - Altium, Labcenter Proteus, SolidWorks, Caddy
- Project organisation and management - Jira, GitHub, SVN, MS VSS, MS Project
- Documentation - MS Word, Excel, PowerPoint, Visio, CorelDraw, GIMP

Other skills

- Designing, 3D printing and building devices at home
- Constructing, programming and flying RC multi-rotor models

Driving licence AM, B1