



Filip Matjašec

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● EDUCATION AND TRAINING

09/2009 – 05/2013 – Čakovec, Croatia

COMPUTER TECHNICIAN – Tehnička škola Čakovec

Field(s) of study

- Computing

A | CPU workflow simulation using Assembly instructions (x86 assembly interpreter)

01/10/2013 – 01/06/2015 – Pula, Croatia

COMPUTER SCIENCE & STATISTICS – University Of Jurja Dobrile Pula

SOFTWARE ENGINEER

DESKTOP PROGRAMMING

- 8+ years of experience with plethora of algorithms & optimization;
- Pathfinding algorithms, BFS, DFS, IDFS, Dijkstra, Floyd-Warshall
- Graph theory and ability to represent real-world problems using graphs
- Binary search, red-black tree
- Knapsack
- Dynamical programming
- 5+ years of experience working with Object-Oriented applications in C++, primarily focusing game development
- Proficient with Unreal Engine 4 (advanced c++, blueprints, and editor)
- Experience with kernel drivers for Windows (KMDF):
- Programming of a kernel driver for an industrial camera that was deployed on thousands of cameras for Asian market
- Skillful with x86 assembly (High-School thesis developing an interactive assembly interpreter in C#)
- Proficient with Microsoft Visual Studio
- Experience with .NET Core and WPF using Model-View-ViewModel standard
- Basics of Python for Machine Learning and Neural Nets using TensorFlow

SCRIPTING

- Python scripting
- LUA scripting - World of Warcraft addons and basic 2D apps in CoronaSDK
- Batch & Powershell scripting

OTHER

- Trigonometry for game development (Vectors, Quats, etc)
- Thorough Windows and Linux Internals
- Basics of reverse-engineering using IDA Disassembler
- Software emulation of L2C bus using GPIO pins
- MySQL & MSSQL (either for web or desktop implementations)
- Experience with ticketing systems, namely Jira
- Basic CNC programming for SINUMERIK machines in glass production with 3 axes
- Fluent in written and spoken English language
- Basics of German language

I also have basic server administration experience while working as a supplement for a Web-based company during crunch times

● WORK EXPERIENCE

12/07/2015 – 08/05/2016 – Žiškovec, Croatia

COMPUTER PROGRAMMER – DOLOTRON D.O.O.

- Programming an Image Signal Processor (ISP) kernel driver (KMDF) for an industrial camera run by Intel Atom processor on Windows Embedded which was installed and shipped on over tens of thousands of units worldwide.
- Breakthrough software emulation of L2C bus using GPIO pins.
- Remote Deployment

01/06/2017 – 12/01/2018 – Pribislavec, Croatia

COMPUTER NUMERICAL CONTROL MACHINE PROGRAMMER – IM-COMP

- Expertise in reading Technical drawings and basic experience with SolidEdge CAD software.
- Programming machines for processing glass and aluminum on 3-axes.

● LANGUAGE SKILLS

Mother tongue(s): CROATIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DRIVING LICENCE

Driving Licence: AM

Driving Licence: B