Nikola Trajkovic

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Linkedin – Nikola Trajkovic

Summary

Highly motivated, educated, problem solving orientated, focused and socially cooperated engineer looking for new challenges that allows professional grow. My professional experience will contribute to employer in many areas due ability of multidisciplinary approach, experience which has been developed through the years of working in different engineering expert ices in multidiscipline teams all over the world.

Highlights

Hardware and Software developer - 01/2018 to now
ELEGRA DOO, Belgrade, Serbia
- Installing and maintenance cloud WEB servers for live event (live stream for various sports events).
- Coding and testing TV graphic system based on Media Looks library for TV Loto RTS Serbia and TV Bingo North Macedonia.
- Coding Game CUBE in Rio de Janeiro (based on Media Looks library) – massive graphic display for big display over basketball court.
- Converting old video switch to AT mega base ATEM Switch.
- Intercepting communication via serial (COM port RS232/485) or Ethernet (TCP/IP) or RF making hardware connection and software for capturing and converting from scoreboard system in more than 100 venues around the world (some of them: all in Serbia, Montenegro, Bosna and Hercegovina, Croatia, Hungary, Slovenia, Slovakia, Bulgaria, India, Lebanon, Philippines, Japan, Egypt, Rwanda, Uruguay, Paraguay, Brazil, Cuba...) to desired output (to serial port or network in desired format usually to XML).
- Designing and testing various types of computer networks between different devices (RF, Ethernet, WIFI, etc.)

EDUCATION

Master of Electrical Engineering for Computers and Information Technology - whit 300 ECTS (European Credit Transfer System) **Faculty of Electrical Engineering, University of Nis**, Nis, Serbia

Highlights

- Multidisciplinary approach
- Highly dedicated to work
- Good as an individual and as a team player
- Eager for new knowledge and challenges
- Very persistent
- Easily adaptable to new business requirements

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Skills

- C/C#/C++
- PHP/MySQL
- HTML/CSS
- Apache/NGINX/IIS
- DPM/ESET
- HP/DELL Servers
- Win servers
- Linux servers
- Network administration
- Network design
- Active Directory (AD domain)
- MS SharePoint
- AT Mega
- STM32
- ESP8/32
- ZigBee/Lara/MQTT
- Windows IOT
- Custom PCB

- Online support for FIBA TV media systems in Europe, Asia and South America.
- Maintenance hardware for TV graphics.
- Designing Scoring and Timing system based on Raspberry pi4 for Modern Pentathlon games.
- And much more.

IT Engineer - 05/2012 to now
Ministry of Finance, TAX Administration, Vranje, Serbia

- Installing and maintenance Win servers (installing from scratch, updating, upgrading ...) installing all other components.
- Hardware maintenance Servers, workstations, debugging, installing, replacing all hardware related modules.
- Network administration, installation and maintenance. Forming a rack to installing and configuration routers and switches.
- Installing, maintenance and administrating MS SharePoint, SCCM, local web app for tax users,
- DPM (Data Protection Manager, client and server side), ESET greed and client monitoring and much more.

Senior Hardware Developer- 01/2023 to 10/2013
HS DEVICES, Nis, Serbia

- Developing IOT Devices, Hardware and software based on STM32WB series.
- Zigbee network for use in IOT devices for agriculture.

Older Experience

Database administrator- 06/2011 to 01/2012
Ministry of Finance, TAX Administration, Bujanovac, Serbia

- Maintaining, securing, and operating databases
- Ensuring data is correctly stored and secured.
- Database testing.

Computer and equipment servicer - 06/2009 to 09/2010
TEHNOPLACE, PC service and store, Bujanovac

- Developing and maintaining networks.
- Repairing and maintaining computer equipment.
- Web site design (frontend and backend) and maintaining it.
- Network building and repairing.

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Language

Serbian – Native

English – Fluent

Marital Status

Married, one child

Driving License

B

PROJECTS IMPLEMENTED WITH A VARIETY OF COMPANES AND INDIVIDUALS – AS A FREELANCER,

- Coding software for keeping records on the state warehouse in production - local warehouse business.
- Streaming live TV - using NGINX rtmp links, and Securing links.
- Design network for Hotel system whit Ethernet and WIFI hotspot system, implementations whit Hotel system users, based on microtick router system.
- Design of microcontroller controlled light system for advertising. Controlling led segment whit microcontroller.
- Hardware and software design for Church bells ringing system. Electronic are based on microcontroller, RTC, RF switch, GPS module and ethernet connection (for web server). The mechanical part is operated by electromagnets also design and made by me.
- Hardware and software design CAR TRIP COMPUTER. LPG state in car tank base on hall effect and preset magnet in tank. With GPS reading and ability to calculate trip from point A to point B. It has Oled display to show current speed, the amount of LPG gas in the tank (in liters), and the distance traveled from point to point.
- Displays for showing prices at the gas station, from start to finish, all hardware, embedded software and software for controlling display from scratch.
- DMX decoder for lighting catering facilities based on At Mega chip.