Kuba Jaloszynski

JUNIOR SOFTWARE DEVELOPER

Details

Copenhagen, Denmark
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Links

LinkedIn

GitHub

Skills

C

Python

Docker

Languages

Polish

English

German

Russian

Hobbies

Electronics
Programming
Sports (Running, Boxing, Judo)

Profile

Skilled in C and Python, Analytical Skills, Engineering and Research. Working with Ubuntu 22.04 as the daily OS. I am interested in embedded systems, with most interest in IoT projects. I have a bit of experience with cloud projects and application backend software. I'm eager to learn cloud-based solutions. Surely a fast learner and a team worker. Available to work at least 16 h/week.

Education

Bachelor of Engineering, Warsaw University of Technology, Warsaw

OCT 2019 — MAR 2023

Field of study: Power Engineering (Studies conducted fully in English)

Overall grade: Above good (4.5/5)

GPA: 4.39

Courses taken:

- Data Science in Power Engineering, Computer Science, Electronics

Master of Engineering, Technical University of Denmark, Kgs. Lyngby

AUG 2023 — PRESENT

Field of study: Electrical Engineering (Studies conducted fully in English)

Study line: Electronics (Electronics - study line description)

Ongoing courses:

- Prototypes for internet of things, Power Electronics, Circuit technology and EMC

Employment History

Full stack Software Developer at Varsonalia PW 2023, Warsaw, Poland

NOV 2022 — JUN 2023

I was leading the team of 3 software developers in the creation of an event webpage with basic application API. Frontend is created in React, Backend in Django. I've worked with frontend, creating website components as well as with backend, making database and API.

Event website: https://juwenalia.pw.edu.pl/

Used technologies & software:

Python, Django, Docker, Postgres, React, Google Cloud Platform

Embedded Software Developer at UXEON sp. z o.o., Warsaw, Poland

JAN 2023 — JUN 2023

I was involved in a multipurpose extension device development project. The device supports serial interfaces such as one wire, I2C and RS485, Modbus transmission protocol etc. My main task was firmware development in C for STM32G070 microprocessor and creation of unified testing for the software itself and flashed devices.

Used technologies & software:

C, Python, STM32G070, Cortex M0+, Ubuntu 22.04, electrical schematics

Software Developer at Impicode sp. z o.o., Warsaw

APR 2022 — DEC 2022

I was involved in two projects:

1) Development of custom language interpreter for microcontroller – I was responsible for project coordination and development of main features in C.

2) Development of recruitment task tester web app – project consisted of two parts, I was developing the backend of the project, test algorithms in python, data management and interface to connect the program to the frontend part of the app.

Used technologies & software:

C, Python, Django, Docker, Postgres, Bison & flex, Bitbucket, Slack, Teensy 4.1

Engineering Support Intern at Joint Institute for Nuclear Research, Dubna, Russia

JUL 2021 — AUG 2021

Summer internship in engineering support sector. My main task was selection and design of thermal measurement station for carbon fiber-based material used in Multi-Purpose Detector in NICA project.

I was involved in operating 3D printers used by the sector, their maintenance, and repairs.

Used technologies & software:

Python, MATLAB, 3D printing

Robotics Instructor at Planeta Robotow, Warsaw, Poland

JAN 2020 — AUG 2020

In this job I have learned responsibility, patience, and handling "unsolvable" situations by coming up with non-obvious solutions. My main task was to design simple robots and create the software for them which later would be understandable for teenagers.

Extra-curricular activities

Team Member at KNN MELprop, Warsaw, Poland

DEC 2020 — OCT 2022

WUT students' association specialized in rocket and pulsejet engines. I was working as a team member in the Thrust Vector Control system project. My main tasks were electronics design, research, and basic documentation. The main part consisted of Arduino Leonardo which controlled 2DM860H CNC stepper motor using PWM.

President at KNN MELprop, Warsaw, Poland

NOV 2021 — OCT 2022

Formal representation of students' association, contact with University and Civil authorities. Daily team support in projects.

Member at NZS PW, Warsaw, Poland

NOV 2020 — OCT 2022

Organizing and organization support of social events.

Hobby experience

Smart home project

I've created a simple smart home system. The master unit controlling the system is raspberry Pi Zero, it serves as a server hosting openHAB instance – open-source Linux distribution created for DIY smart home projects, it is also a MQTT broker for all Wi-Fi based devices. Currently there is Wi-Fi controlled light system, it is an existing electrical circuit modified with Sonoff MINI R2. In this part of the system the biggest challenge was reinstalling the firmware to Tasmota – open-source for ESP devices and connecting it to main system. The second type of devices currently operating are Wi-Fi controlled blinds. The master unit in this subsystem is ESP32 and ESP8266 microcontroller, there was created simple firmware for connection with RaspberryPI Zero W master device

and on the other hand it controls ULN2003A stepper motor controller. In this part of the project, I also designed and made mechanical parts, such as gear system, cases for all electronics, etc. and power supply for ESP which utilize xl4015 step-down circuit. Under development is integration of ZigBee receiver board along with door sensor and Xiaomi sensors ecosystem, with Xiaomi Gateway v3.

3D printer

I own a 3d printer in which I replaced a motherboard and reinstalled with open-source, C based Marlin firmware along with sensors modification. I'm currently working on a firmware modifications changing some built-in features.

Courses

IELTS Academic – Overall: Band 7.5, Lang LTC.
JUN 2022

Autodesk Inventor 2021- Level I, PROCAD SA
NOV 2021

Pilot BSP (A1/A3), Polish Civil Aviation Authority
JAN 2021