

# Karel Fojtík

## Software developer

karel.fojtik@email.cz

## 23 May 1994

+420 774 079 964

Olomouc, Czech Republic

## PROFESSIONAL EXPERIENCE

## Sep 2021 – present Olomouc / remote, Czech Republic

**Software developer,** Institute of Molecular and Translational Medicine

Developing full-stack web applications for the Institute of Molecular and Translational Medicine. Enhancing existing features, adding new functionalities, and ensuring code quality through thorough testing.

#### Tech Stack:

- Attlasian suite (Jira, Bitbucket, Bamboo)
- Java (Spring Boot, JPA, jUnit)
- JavaScript (EC6, jQuery)
- Oracle SQL
- Docker

## Oct 2019 – May 2021 Prague / remote, Czech Republic

#### **Technical Service Specialist,** Abbott Laboratories, s.r.o.

The Technical Service Specialist is responsible for providing support to our customer base, you will be responsible for handling installations and deinstallations, repairs, instrument hardware or software upgrades and providing basic training to customers.

- Schedule and perform planned maintenance (PM) activities
- Perform new customers and laboratory site inspections for new contract / tender preparations and design for new installations
- Conduct / assist with installation of instruments, AbbottLink, and automation and deinstallations
- Assist with customer business reviews
- Schedule, perform and document hardware and software updates (TSBs)
- Deliver basic customer operator introductory trainings post install

#### Mar 2018 – Jun 2018 Grenoble, France

### Researcher, Polytech Grenoble

Erasmus internship research-focused project centered around the exploration of Optimum Localization of PCG Sensors and Analysis of PCG Signal

- Phonocardiographic Signal Data Acquisition
- Matlab Signal Processing
- Statistical Hypothesis Testing and Data Analysis using R
- Research Article Contribution: Delivered insights and findings through a published research paper

### 2011 – present Czech Republic

#### Junior Project Manager, Tern event, s.r.o.

Seasonal Project Management of Team Building Activities and Fun Corporate Team Events. Senior Outdoor Instructor

#### **EDUCATION**

## 2016 – 2019 Ostrava, Czech Republic

**Biomedical Engineer,** VSB − Technical University of Ostrava, Faculty of Electrical Engineering and Computer Science 

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The Master's Degree Program in Biomedical Engineering is a 2 year study program that is accredited simultaneously by the Ministry of Education and also by the Ministry of Health. Upon successful completion, graduates become an electrical engineer and also a non-medical medical worker.

- Master's thesis: Optimum Localization of PCG Sensors and Analysis of These Signals
- Diploma exam, Dean's award for the excellent diploma thesis

2013 - 2016

Ostrava, Czech Republic **Biomedical Technician,** VSB – Technical University of Ostrava, Faculty of Electrical Engineering and Computer Science 3

Engineering and Computer Science 

The Bachelor's Degree Program in Biomedical Technology program is

The Bachelor's Degree Program in Biomedical Technology program is a 3 year study program. The study program is focused on the field of biomedical engineering, which combines the disciplines of engineering and medical sciences.

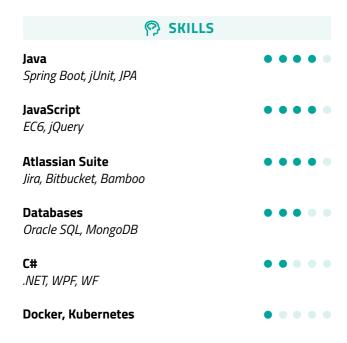
- Bachelor's thesis: Software for Feedback using Rehabilitation Device
- Diploma exam, Dean's award for the excellent bachelor thesis

2009 - 2013

Olomouc, Czech Republic Technical Lyceum, VOŠ A SPŠE OLOMOUC

Secondary School Of Electrical Engineering Maturita (A-LEVELS) exam - passed with honors

• Seminar paper: Fylogenetic Evolution of Circulatory System



#### Other

MATLAB, R, Unity 3D, CAD systems (AutoCAD), Ai

## ♠ CERTIFICATES

## **Driving licence**

category B

#### Decree 50/1987 Coll. - §7

Decree of the Czech Office for Safety and the Czech Mining Office, passed 2019

#### Abbott Laboratories, s.r.o.

ACCELERATOR a3600 (Automation System)
DMS (Data Managment System)
CD RUBY (Hematology System)
Architect i2000SR (Immunoassay Analyzer)

#### **Czech Society for Medical Devices**

Use of telemedicine in infusion therapy Use of telemedicine in hemodialysis therapy

## LANGUAGES

Czech

English

Spanish

## **PROJECTS**

# Optimum Localization of PCG Sensors and Analysis of These Signals, *Master's thesis* ☑

2018 - 2019

- Phonocardiographic Signal Data Acquisition
- Matlab Signal Processing
- Data Analysis and Statistical Hypothesis Testing using R

## Software for exercise on rehabilitation device,

Part-time project

2017

Creating software to manage patient records and facilitate exercise routines on a rehabilitation device, utilizing C#, WPF, and Microsoft SQL technologies.

## Software for Feedback using Rehabilitation Device,

Bachelor's thesis

2015 – 2016

Designing software that features a range of 2D and 3D games intended for exercise on a balance board equipped with inertial sensors, enabling seamless integration of biofeedback (using C# and Unity Engine).

#### **PUBLICATIONS**

Is there an Optimal Localization of Cardio-microphone Sensors for Phonocardiogram Analysis?, 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)

#### **& INTERESTS**

travel blogging 🕜 | travelling | hiking | digital graphics | video editing 🗸 | fitness | floorball | reading