

Vojtěch Šimetka

Computer Scientist | Artist | Volunteer | Barefoot Runner

EDUCATION

BRNO UNIVERSITY OF TECHNOLOGY

MSc in Computer Graphics
07/2010 - 09/2015 | Brno, CZ

OULU UNIVERSITY OF APPLIED SCIENCES

Erasmus exchange program
01/2015 - 05/2015 | Oulu, FI

LANGUAGES

CZECH Mother-tongue
ENGLISH C2
FRENCH A2

SKILLS

PROGRAMMING

C | C++ | Java | JavaScript | SQL
HTML | CSS | PHP | SQL | Python
Jason | Visual Basic | Swift

OpenCV | OpenGL | OpenCL
Spring | Angular2 | Slim | Three.js
Wordpress | Unity | Ionic2 | Electron

CAD & DESIGN

CATIA v5 | Solid Edge | SketchUp
Blender | Photoshop | Graphic

PROTOTYPING

Modelling | Wireframing | UX & UI
Prototyping

SOFT SKILLS

Assertivity & Communication &
Conflict resolution & Teamwork
courses | Public speaking

AWARDS

Best Educational App
2014 | CERN Webfest

Dean's award, Bachelors thesis
2013 | Brno University of Technology

Honourable Mention
2008 | First Step to Nobel Prize in
Physics

Special Prize
2007 | ICYS, RU

OBJECTIVES

My goal is to advance the human knowledge and quality of life through science and technology. My dream is to improve the form of expressing complex scientific ideas by easy to understand, minimalistic art style.

WORK EXPERIENCE

CERN | Software Developer 10/2015 - Present | Geneva, CH

Member of a configuration and layout section helping to create and maintain documentation in form of pictures and drawings for all current machines.

- Specifying, designing, developing and maintaining system for 360° panoramic images to reduce radiation exposure (Java, Spring, HTML, Javascript, Oracle DB)
- Capturing images in the supervised and controlled radiation areas, processing, stitching and uploading to a DB system (Lightroom, Photoshop, Kolor Autopano)
- Adapting system for production of layout drawings to needs of LHC, designing version control schema and providing support (VBA, Git)
- Generating LHC layout drawings (VBA, CATIA, SmarTeam, Oracle DB)
- Day-to-day support and cooperation with different sections in CERN

INGE Opava | IT Consultant 2012 - 09/2015 | Opava, CZ

External consultant inspecting the IT system and processes while obtaining university degree.

- Designing and creating interactive product catalogue for iPad (iBooks Author)
- Auditing IT systems and processes
- Analyzing needs and creating specification for new website
- Developing internal product database system (PHP, MySQL, JavaScript)
- Specifying, communicating and overseeing development of database system with DIAL GmbH

NON PROFIT

THE Port | Organiser, Web Developer 10/2015 - Present | Geneva, CH

Volunteer organizing humanitarian hackathons which aims to solve current humanitarian and human rights problem with technology.

- Coaching multicultural teams of 8-15 members in the preparation phase, during the hackathon and after the event with aim to create commercial solution
- Developing new website with DB system to automate content creation (Wordpress, MySQL)

Tvůj Tábor | Organiser, Camp leader 2008 - 2014 | Brno, CZ

Volunteer organizing summer camps for children.

- Communication with authorities, parents and camp leaders
- Guiding children aged 6-15 during 2 weeks period

PASSION PROJECTS

Particles | Educational game

Explaining experimental particle physics through game modelling CERN accelerator complex.

Blind Navigation | Humanitarian project

Outdoor navigation system for people with visual impairment using open data and custom-made belt to indicating directions through vibrations. <http://simetka.cz/OGH/>

Chain Safe | Humanitarian project

Open and integrated platform for medical product monitoring that collect and share the information needed to detect fraud, reduce costs, and save lives. <https://chainsafe.org>