Aleksander Grzyb

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Education

Poznań University of Technology

Master's Degree, Computer Science (Intelligent Decision Support Systems specialization)

Thesis title — Spatial coregistration algorithms for angiographic imaging with optical coherence tomography.

Poland, Poznań from February 2014 to October 2015

Poznań University of Technology

Bachelor's Degree, Robotics and Control Engineering

Thesis title — Robot Operating System interface for walking robot (team project).

Poland, Poznań from October 2010 to February 2014

Student Exchange

Tallinn University of Technology
Master's Degree, Computer Science
Estonia, Tallinn for spring semester 2015

Universidad Politécnica de Cartagena
Bachelor's Degree, Robotics and Control Engineering
Spain, Cartagena for fall semester 2012/2013

Employment

Allegro Group
iOS Developer

Working on Allegro iOS application (in top 20 free apps in Poland) and foreign equivalents — Aukro.ua and Aukro.cz. Aside of developing and maintaining the apps I created a tool in Ruby that automatically extracts sentences from source code that need to be translated. Tool resulted in faster product development.

Poland, Poznań from September 2015 (current)

Westinghouse Electric Company
Engineering Internship

Prepared analysis of circuit board that collects and processes currents from sensors measuring neutron flux inside nuclear reactor which helped engineers in designing new version of circuit board.

USA, Windsor Locks from June 2014 to October 2014

Business Reporting Advisory Group
iOS Developer

Developed algorithm that automatically digitizes text from shop receipt based on its photo. Algorithm is written in C++. For image processing I used OpenCV and for character recognition I used Tesseract OCR engine.

Poland, Poznań from October 2013 to April 2014

Recent projects

In October, 2015 I defended my **master's thesis**. The product of the thesis is a program that automatically stitches set of retinal angiography eye images. Program is written in **C++** and is using **OpenCV** for image processing and **libconfig** for parsing configuration file. My work in form of a paper is available here (in Polish) and the software is available in this repository.
Language — C++

During summer I created my personal website using **Jekyll** which code is available in this repository.
Languages — HTML, CSS

In April, 2015 during student exchange in Tallinn I participated in a 2 day hackathon organized by Skype. In a team with a designer I developed **iOS application** showing menu of university cafeterias. Application is using **Parse** as backend. Source code of application is available here.
Language — Objective-C

During student exchange in Tallinn with other students for Software Project course we adapted cross-platform computer program to read data of new university smart cards.
Language — C++

Skills

Product development in team

I am proficient with **Git** version control, **code review** and **scrum** agile software development methodology.

Languages

Proficient — C++, Objective-C
Prior expierience — Ruby, HTML, CSS, Swift, Python, Java