

# Aleksander Grzyb

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## 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 gem in Ruby that automatically releases internal modules (private spec repository) that is used across iOS teams at Allegro.

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

## 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

## Recent projects

In April, 2016 I released to the App Store iOS application called Bimba. Application is showing real time departures of trams and buses in my home city, Poznań.

**Tech** — iOS, Swift, Realm

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 was 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.

**Tech** — C++, OpenCV

During summer 2015 I created my personal website using **Jekyll** which code is available in this repository.

**Tech** — HTML, CSS, Jekyll

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.

**Tech** — C++, Qt5

## Skills

### **Product development in team**

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

### **Languages**

Proficient — Objective-C, Swift, C++

Prior experience — Ruby, Python, Java, HTML, CSS