Alberto Spina

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EDUCATION

Imperial College London

October 2015 - June 2019

Master of Engineering in Computing.

Cumulative Average: 80%

EXPERIENCE

G-Research

April 2018 - September 2018

Software Engineering Intern - Technology Innovation Group

- · Designed and developed a fully-customizable Random Data Generator in Java with Yaml config files.
- · Deployed easy-to-use MEAN applications to wrap Ansible, VSphere and Active Directory operations.
- · Benchmarked library and code performance on different architectures, compilers and GPUs.

PROJECTS

DynamicFusion - computer vision

October 2017 - January 2018

DynamicFusion is a dense Simultaneous Localization and Mapping (SLAM) system capable of reconstructing non-rigid deforming scenes. Written in C++ and built on top of KinectFusion, given an RGBD stream we perform model reconstruction using: PCL and OpenCV (image processing), Opt and Ceres (non linear solvers) and CUDA (GPU acceleration).

BaoBOS - robotic arm

August 2017 - September 2017

BaoBOS is a hydraulic powered robotic arm built out of wood and syringes. Robot backend is written in C, interactions with objects are rendered in a digital environment using C++ with OpenGL.

Paging - web application

June 2017 - July 2017

Built in a group of four using the MEAN stack (MongoDB, ExpressJs, AngularJs and NodeJs), Paging is an application meant to enhance the group planning experience using the Google Maps API.

Pintos - operating system

January 2017 - March 2017

Working in a group of four we implemented Thread Scheduling, System Calls and Virtual Memory management for a simplified Linux-based operating system in C.

AWARDS AND ACHIEVEMENTS

Dean's List, Imperial College

July 2018

Awarded for achieving 82.5% in year Three, result which is in the top 10% of the year group.

Palantir Forward Group Project Prize, DynamicFusion

January 2018

Awarded to an Outstanding Third Year Group Project for Software Engineering Excellence applied to solve an Important Real-World Problem.

Olav Beckmann Project Prize, Imperial College

July 2017

Awarded for outstanding second year undergraduate laboratory project work.

SKILLS AND LANGUAGES

Languages

Fluent in English and Italian. Well-versed in French.

Technical Skills Proficient with C, C++, Java and Javascript. Familiar with C#, Python and

Haskell. Basic knowledge of UNIX, SQL and scripting.