Konstantinos I. CHATZILYGEROUDIS

Personal Data

PLACE AND DATE OF BIRTH: Nottingham, Great Britain | 5 February 1991

> Greek & UK (claiming) CITIZENSHIP:

MARITAL STATUS: Married

> Address: 9-11 Kalkon, Athens, 11743 Greece

PHONE: +30 6978 120 104 EMAIL: costashatz@gmail.com GITHUB: GitHub Account BITBUCKET: Bitbucket Account LINKED-IN: Linked-In Account

PROFILE

I recently graduated from Computer Engineering and Informatics Department of University of Patras with 8.25/10 GPA. My academic interests lie in the areas of Robotics, Robot Locomotion, Artificial Intelligence, Machine Learning, 2D/3D Computer Graphics, Computer Vision, and Software Engineering. In addition, I was reviewer in the 3rd IEEE/IFTOMM International Conference on Reconfigurable Mechanisms and Robots (ReMAR 2015).

I am, also, a member of the Robotics Club of the Mechanical Engineering and Aeronautics Department of University of Patras, where we have regular discussion meetings on Robotics (ROS), programming (C++/Python/Matlab) and algorithms, and we're developing several robotics projects.

EDUCATION

SEPT 2009-2014

(Under)graduate Degree in COMPUTER SCIENCE AND ENGINEERING, University of Patras It is a five year program that leads to a Master's equivalent degree (300 ECTS).

Specialized in software engineering, computer graphics, A.I. and robotics. Diploma Thesis: Navigation of Humanoid Robot Nao In Unknown Space With Dynamic Obstacles

Advisors: Nikos Aspragathos, Emmanouil Psarakis, Ioannis Hatzilygeroudis, Aris Synodinos

GPA: 8.25/10.0 (5% of my class)

Online Courses at Coursera, Udacity, edX **2010-TODAY**

I have attended and completed over 15 online courses covering a very broad range of topics,

including Software Engineering, Artificial Intelligence, Robotics, Control Theory,

Machine Learning, Game Theory, Digital Signal Processing, e.t.c.

High School, G.E.L. Kato Kastritsiou, Patras **JULY 2009**

GPA: 19.3/20

PUBLICATIONS

CONFERENCES

• P. Koustoumpardis, K. Chatzilygeroudis, A. Synodinos, N. Aspragathos "Human robot collaboration for folding fabrics based on force/RGB-D feedback" 24th Inter. Conf. on Robotics in Alpe-Adria-Danube Region, 27-29 May, 2015, Bucharest, Romania

WORK EXPERIENCE

MAY 2015-TODAY

Google Summer of Code 2015 Intern at OPEN SOURCE ROBOTICS FOUNDA-TION

As a GSoC 2015 intern, I will focus on adding more features to the core library of the Ignition Robotics Transport Library.

JANUARY 2015-TODAY

Programmer at Institute for Language and Speech Processing, Athens

I am market researching and setting up a laboratory for multi-modal human-computer interaction based on expressive speech synthesis (robots, avatars, motion capture systems, microphone arrays, e.t.c.).

MARCH 2014-JUNE 2014

Intern at BIT My Job, Patras

During my internship at Bit My Job I developed a framework for Tablet (Android) to Server (Java) communication for live-scoring purposes in shooter tournaments. Also, I created several websites using PHP, Joomla or Wordpress. My internship had duration of 3 months.

OCT 2013-DEC 2103

Programmer at Laboratory for Manufacturing Systems and Automa-TION, University of Patras

Worked on CAPP 4 SMEs European Project. I was developing 3D/2D simulation (using Java and OpenGL) and a Web Application (using Ruby on Rails).

Honors & Awards

AUGUST 2009 **GREEK NATIONAL EXAMS - ADMISSION EXAMS**

> Ranked 1st in admission exams for the Computer Engineering and Informatics Department of University of Patras among 250 students who succeeded.

GPA: 19.285/20.000

MICROSOFT IMAGINE CUP COMPETITION MAY 2010

Ranked among the 150 best teams with team TTD (as a game designer/developer) at the

Game Development part of the International "Imagine Cup 2010" competition

(organized by Microsoft) with the project/game Spring

SKILLS

Strong Knowledge: C/C++

Robotics Operating System (ROS)

Java, C#, Python

Object Oriented Programming & Design

Game-Graphics Programming Mathematics for 2D/3D Graphics

Intermediate Knowledge:

Ruby

Screw Theory

XNA, Directx10, OpenGL

Matlab/Octave

MVC Web Development with Ruby on Rails or HTML, PHP

Javascript/jQuery Android Programming

CSS₃, H_{TML}₅

ACTIVITIES & PROJECTS

PROGRAMMING

- C#/XNA Games
- C/C++ University Assignments (including unix semaphores, shared memory, sockets, object-oriented design and data structures design)
- Prolog University Assignments
- Octave/Matlab for Online Courses Assignments ("Introduction to Machine Learning" and "Neural Networks for Machine Learning" in Coursera)

ROBOTICS

- Interested in advancing in this field
- Worked with NAO Robot in my Diploma Thesis
- ROS Stack nao_dcm for NAO Robot
- ROS Packages (nao_gazebo) to simulate NAO Robot in Gazebo simulator
- Studied Bipedal Robot Locomotion in my Diploma Thesis
- Project Manager in Robotics Club project "Polymechanon" a robot for rescue scenarios
- Assignments for "Control of Mobile Robots" online course (simulated Khepera III robot)

AI & MACHINE LEARNING

- Interested in advancing in this field
- University Projects (Python) with focusing on Natural Language Processing
- Octave/Matlab for Online Courses Assignments ("Introduction to Machine Learning" and "Neural Networks for Machine Learning" in Coursera)

COMPUTER GRAPHICS

- Interested in advancing in this field
- A simple C++ Raytracer from scratch (github)
- University Projects using OpenGL (bitbucket)

Web

- I have created websites using mainly the MVC Framework and either Ruby on Rails or PHP.
- Example: Anagennisi Patron Table Tennis Academy

SPORTS

- 2012-2014: Table Tennis player in highest league in Greece.
- 2010-2014: Head coach at Table Tennis Academy "Anagennisi Patron".
- 2002-2012: Table Tennis player in various leagues in Greece.

SCHOLARSHIPS

NOVEMBER 2009 1st in Admission Exams Scholarship (€500 + 1 netbook)

LANGUAGES

ENGLISH: Fluent (Proficiency - C2)

GREEK: Native

FRENCH: Basic Knowledge (Lower - B2)

INTERESTS & ACTIVITIES

Technology, Open-Source, Programming Table Tennis, Football, Drawing