Nontas Rontogiannis

Software Design Engineer – ASML Netherlands

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Eindhoven, The Netherlands

Full name : Epameinondas Rontogiannis | Born : 13-Feb-1990 in Athens, Greece | Nationality : Hellenic

Education

September 2017 – September 2015 — **Professional Doctorate in Engineering, Software Technology, Eindhoven University of Technology**

- A two-year post-master program, where the trainees work on industry projects in order to enhance their skills on software design and development.
- Thesis : Generating Protocol-Compliant Simulators (*Client : ASML Netherlands*)
- GPA : 4.5/5.0 – Graduated with merit (cum laude)

September 2015 – September 2007 — **Diploma in Engineering, Dept. of Electrical & Computer Engineering, University of Patras**

- Master's equivalent studies (300 ECTS)
- Major : Computer Science and Electronics
- Thesis : Achieving Super Resolution of Thermal Images using Compressed Sensing methods.

Work Experience

Present – November 2017 — **Software Design Engineer, ASML Netherlands, The Netherlands**

- Working for the Software Innovation team of the Litho Systems-and-Software Architecture group.
- Working on Model-Driven Test and Simulation.
- Definition and development of the company's Test and Simulation strategy.

Modelling | Model-Driven Testing | Simulation | Formal Methods | Integration

September 2015 – August 2014 — **Senior Student Partner, Microsoft Corporation, Greece**

- Supervised and steered Microsoft's Academic Communities in Greece.
- Managed and recruited top-talent students for Microsoft's Academic Programs.

Management | Communication Skills | Planning | Technical Marketing | Audience Engagement

September 2015 – September 2013 — **Teaching & Lab Assistant, University of Patras, Greece**

- Assisted, taught, and supported the laboratory classes of the courses "Digital Signal Processing I & II."
- Developed new educational material (lab exercises and assignments).
- Worked with the eXpressDSP software platform and the TMS 320 CPU family of Texas Instruments.

Signal Processing | Teaching | Programming | Development of Algorithms | Software Optimisation

September 2013 – August 2011 — **External Partner/Developer, Greek Yellow Pages, Greece**

- Designed and developed the company's mobile application for Windows devices.
- Transformed requirements into designs and code.
- Collaborated with the company's Software Development and Marketing departments.

.NET development | Stakeholders' Management | Mobile Development

July 2014 – July 2008 — **Student Partner, Microsoft Corporation, Greece**

- Contact person between professors, students, and the company.
- Organised workshops/seminars on campus.
- Managed the student community of University of Patras (StudentGuru Patras).
- Administered Microsoft's Online Student Community (StudentGuru.gr) in Greece.
- Technical marketing and audience engagement.

Management | Communication Skills | Planning | Technical Marketing | Audience Engagement

Technical Skills

Programming	Java, Microsoft .Net (C#), C++, Python, MATLAB
Databases	MySQL/MSSQL
Modelling	Eclipse Modelling Framework, ASD:Suite, Stateflow

Personal Skills

- Team worker
- Creative thinker
- Goal oriented
- Challenge driven

Selected Projects

September 2017 – January 2017

Generating Protocol-Compliant Simulators, ASML Netherlands, Eindhoven

Are we building the system right? Are we building the right system?

In other words, software verification and validation. Validation via testing requires effort and increases lead-time in the software development process. This project did an investigation on the possibilities of testing model-driven systems and the use of protocol simulators was proposed as a solution direction.

Eclipse Modelling Framework | Model-to-Model Transformations | QVTo | Java | C++

December 2016 – September 2016

Model-Driven Engineering Project, ASML Netherlands, Eindhoven

This project involves solving a problem following a model driven approach.

- Role : As a lead integrator and configurator, I was responsible for the configuration of our infrastructure and the automation of the development process. This automation includes setting up and configuring a Jenkins server to test our software and produce builds. In addition to this, we had to ensure the correct integration of our solution, both on code and model level.

MATLAB | Simulink | Stateflow | Jenkins | Git | Papyrus (RT)

June 2016 – April 2016

Embedded PreScan, TASS International, Eindhoven

A proof-of-concept project to explore the benefits of using PreScan on cars as assistive software in the process of autonomous driving.

- Role : As a configuration manager, I was responsible for the configuration of my team's machines, our repositories, and our testing environments. Our task was to explore the benefits of PreScan using Raspberry Pi-enabled robot vehicles.

PreScan | MATLAB | Python

March 2016 – February 2016

ODAS System, Océ-Canon, Eindhoven

The ODAS System is a sophisticated platform where engineers can create and execute algorithms for data analysis and predictive maintenance.

- Role : As a lead designer, I supervised the software design of ODAS' alerting system, where critical Jupyter notebooks had to be executed in parallel (Python/Multiprocessing) with a specific frequency. If a critical situation was detected, a mail-alert is sent (ØMQ) to a predefined group of engineers.

Python | ØMQ | Jupyter

December 2015 – November 2015

IoT Lighting Platform using DMX and Hue lights, Intelligent Lighting Institute, Eindhoven

This project aimed at the creation of an IoT platform for an installation of DMX and Philips Hue lights of the Eindhoven University of Technology.

- Role : As a team leader, I was responsible for communicating with the client, organizing our tasks (Scrum), and supervising the team's progress. My team's task was to make the DMX and the Hue lights IPv6 addressable (in a virtual way) and change each light's state according to the packets received at its virtual IPv6 address.

Java | CoAP | Python | Kinect SDK

Awards

2012 Windows Phone Hackathon – Microsoft Hellas : Top 5 winners.
2011 Microsoft Student Partners European Summit – Greek Representative
2010 Microsoft TechEd Europe 2010 – Invited participation
2009 Microsoft TechEd Europe 2009 – Invited participation
2008 Microsoft ImagineCup 2008 : Second National Winner

Laguages

Greek (native) ●●●●●
English (C2) ●●●●○
German (B2) ●●○○○
Dutch (B1) ●○○○○

Hobbies and Interests

- Photography
- Reading
- Travelling
- Music
- Apiculture