

AHMET ANIL PALA – Curriculum Vitae

Personal Details:

Address: 5 Rue du Docteur Desfray, 41000, Blois/France
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Date and Place of Birth: 05/09/1990, Bursa/Turkey
Gender: Male
Marital Status: Single
Nationality: Turkish

Summary: An enthusiastic graduate student with solid technical skills aiming to be a data scientist. Interested topics: Data Mining, Information Retrieval, NLP, Machine Learning, Grid Computing, Hardware adaptation for big data analytics.

Education:

2013– ... Information Technologies for Business Intelligence, Joint program by Université Libre de Bruxelles, Université François-Rabelais de Tours, and Technische Universität Berlin.
Principle Subjects: *Big Data Analytics, Parallel and Distributed Data Processing, Data Mining, Information Retrieval, Advanced Datawarehousing, Machine Learning, NLP, XML and Web Services.* <http://it4bi.univ-tours.fr>

2009 – 2013: Middle East Technical University, BSc in Computer Engineering, CGPA: 3.62/4.00, Ankara/Turkey
Principle Subjects: *Software Engineering, Computer Architecture, Theory of Computation, Advanced Programming in C and C++, Embedded Systems, Computer Graphics, Signals and Systems, Computer Networking.* <http://cenq.metu.edu.tr>

2012/Spring: Wroclaw University of Technology, Exchange student, CGPA: 4.50/5.00, Wroclaw/Poland
Principle Subjects: *Operating Systems, Numerical Analysis.* <http://www.ii.pwr.wroc.pl>

2008 – 2009: Middle East Technical University Foreign Languages School, two-semester intensive English language course program, Ankara/Turkey

2004 – 2008: Balikesir Science High School, Balikesir/Turkey, CGPA: 90.56/100

Computer Skills:

- Programming Languages: C, C++, C#, Java, Python, LISP, Haskell, Prolog, SQL, GNU Octave, Assembly(X86,Y86)
- Scripting Languages: ActionScript, JavaScript
- Hardware Description Languages: Verilog
- Modeling Languages: UML, UML2.0, YAWL, BPMN
- Version Controlling Tools: GIT, SVN, MS Team Foundation Server
- Operating Systems: Linux, Windows

Languages:

- Turkish (native)
- English (advanced, 99 iBT Internet-Based TOEFL Certification)
- Beginner in German, French and Polish

Working Experience:

- **Middle East Technical University** - Teaching assistant of "Introduction to C Programming" course for non-Cs students, September 2010 – December 2012 , Ankara/Turkey
- **SRDC¹ (Software Research & Development and Consultancy Company)** – Summer Internship. June 2011 – July 2011, Ankara/Turkey

Assigned to an EU-project called epSOS² (the European eHealth Project) which aims to design, build and evaluate a service infrastructure that demonstrates cross-border interoperability between electronic health record systems in Europe. Tasks I carried out are outlined below.

¹ <http://www.srdc.com.tr>

² <http://www.epsos.eu>

- Implemented the user interface and business logic of epSOS Portal with **Adobe Flex** and **Cairngorm Framework** based on **MVC** (Model-View-Controller) design pattern
- Contributed to the integration of epSOS Portal into PHR (Personal Health Record, another project of SRDC)
- Contributed to the implementation of local client services for epSOS in **JAVA** (as a bundle of **OSGI Framework**)

- **KOVAN Research Lab³** - Summer Internship July 2012 – September 2012 Ankara/Turkey

Assigned to a project of KOVAN in collaboration with TAI (Turkish Aerospace Industries) which basically aims developing a swarm of unmanned air vehicles capable of undertaking missions collectively and testing the vehicles' autonomous skills to fly, communicate and act collectively. Tasks I completed during internship are listed below.

- Designed a messaging system to establish communication infrastructure for swarm of quadcopters using **MAVLink** (Micro Air Vehicle Communication Protocol).
- Modified the leader and follower quadcopter's firmware for inter-vehicle communication (sending and receiving messages over a wireless channel via messaging system designed)
- Modified Ground Controller Station Software (arducopter/GCS⁴, an open-source **C#** project) to monitor a swarm of Unmanned Air Vehicles.

- **INFO-H-415 Advanced Databases, Course Project**

A database management API that functionally answers multi-temporal queries (e.g. temporal join, sequenced division, sequenced aggregation, etc.) with multi-versioning support is designed and implemented (in **MS SQL Server 2012**) with a fellow classmate. Completed in December 2013, Brussels/Belgium

- **CONFMAN - Bachelor Project⁵**

Compulsory project for undergrad students within the scope of the curriculum of computer engineering at METU. Basically, aim of the project is developing a conference management system as a web service. Significant improvements on currently used similar systems are realized in terms of flexibility, scalability, reusability, software intelligence and versatility. Completed in June 2013, Ankara/Turkey

- **SPA (Static Program Analyzer) – CENG 451 Information Systems Development, Course Project**

In the scope of the CENG 451 Information Systems Development course, I and two of my fellow classmates developed a Static Program Analyzer (SPA for short) which is an interactive enhanced cross-referencing tool that answers queries about programs written in SIMPLE⁶. The source code is hosted on Microsoft Team Foundation Server⁷ which by we have managed version controlling, data collection and reporting within an agile development strategy. Furthermore, two CASE tools (starUML and Microsoft Visio) are employed and SPA is coded in **C++**. Completed in January 2013, Ankara/Turkey

- **Other Notable Course Projects**

- A Fully-fledged Raytracer is coded in **C++** by using STL / Ceng477 - Computer Graphics
- A Theorem prover for First Order Predicate Logic is implemented in **Python** using resolution refutation technique / Ceng462 - Artificial Intelligence
- Scene Graph Implementation with garbage collection functionality in **C++** / Ceng242 - Programming Languages
- An interpreter is implemented for Simple Turtle Language (a reduced version of LOGO) in **Prolog** / Ceng242 - Programming Language Concepts

Honors, Scholarships, Awards and Professional Certifications:

- Erasmus Mundus Category A Scholarship (Sep 2013 – Sep 2015)
- 5th place among approx. 100 graduates of class of 2009 in Computer Engineering Department of METU - June 2013
- Alarko Holding Excellence Scholarship for senior undergraduate engineering students (Oct 2012 – June 2013)
- Cisco Certified Network Associate CCNA - June 2012
- Erasmus grant for Erasmus Exchange Program for 5 months of study in Wroclaw/Poland (Feb 2012 – June 2012)
- 3rd place award among freshmen in 1st semester of curriculum of Computer Engineering Department

³ <http://kovan.ceng.metu.edu.tr>

⁴ http://code.google.com/p/arducopter/wiki/AC2_GCS

⁵ <http://cengizover.weebly.com/>

⁶ <http://www.simplecodeworks.com/whatissimple.html>

⁷ <https://aanilpala.visualstudio.com/defaultcollection>

- High Honor Student in METU for 1st 3rd 4th 5th 6th 7th 8th and 9th semesters of curriculum of Computer Engineering Department
- Ranked in top 0.02% among 1.7 million participants in the National University Entrance Exam -June 2008

Extracurricular Activities:

- Debating (former member of METU Debate Society)
 - Fencing
 - Electric Guitar Player
 - Online Programming Contests
 - Physics
 - Cognitive Science
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ⁱ Updated on March 16th, 2014