

## RESUME



### PERSONAL INFORMATION

Name, Surname: Candat Urunga

Occupation: B.S. Mechanical Engineering, M.S. Computer Engineering

Country: Turkey

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E-mail: candasurunga@gmail.com

Gender: Male

Date of Birth/Birth Place: 27.04.1978/İstanbul

Marital Status: Married

Children: Yes, Two

Driving License: Yes

**MAIN CAREER OBJECTIVE:** Realize a software project named User Guidance System, based on my patent pending User Guidance invention. Working as a manager and senior engineer by using previously gained analysis, design, manufacturing and software development experience for reaching solutions. Continuous improvement and excellence are the main aims.

## **WORK EXPERIENCE**

### **Ecan: 29.11.2013-Currently Working**

#### ***Founder and Manager***

Ecan is founded to realize a software project named User Guidance System, based on patent pending User Guidance invention related with Human Computer Interaction (HCI) field. Goals of Ecan other than this project are developing software solutions especially for engineering companies and providing engineering consultancy/training services.

### **Tusas Aerospace Industries (TAI): 03.11.2003 -29.06.2012**

#### ***Senior Assembly Manufacturing Engineer-01.06.2011-29.06.2012***

Joint Strike Fighter (JSF) project Automated Drilling System (ADS) Integrator. Also Key Characteristics and Tolerancing Tool Responsible for Airbus A350 project.

#### ***Senior Structural Design Engineer- 01.03.2009-01.06.2011***

Worked at T-38 jet trainer modification project as a senior design engineer. Worked in the cockpit area (Head-Up Display (HUD) installation design etc.) of the aircraft.

#### ***Structural Design Engineer- 08.08.2006-01.03.2009***

Worked at ARGE-2004 modification project as a design engineer. Used NX and Teamcenter Environment. After completion of this project, worked in structural integrity section using PATRAN and CATIA (ATAK project). Developed some tools using C# for structural analysis purposes. Develop some methods for geometry preparation and topology optimization. Worked at T-38 jet trainer modification project as a design engineer.

#### ***Process Leader (Composite & Metal Bonding Facility)-02.01.2006-08.08.2006***

Responsible for setting up 5X Abrasive Water Jet (AWJ) system and programming of more than 60 AWJ NC programs, teaching 5X AWJ NC programming techniques. Leader of ten technicians. Also responsible for laser projectors, ply cutter and core cutting machine and related software issues.

### ***NC Engineer- 03.11.2003-02.01.2006***

Preparation of more than 90 NC programs (3X and 5X) of aircraft parts & tools using UG CAD/CAM and verification with Vericut 5.4 software.

#### Job Trainings and Visits:

2012(3 days): MECAMaster software Training  
2012(10 days): Visited Northrop Grumman/Palmdale as ADS Integrator  
2011(1 day): AS 9100 Quality Management Systems  
2011(4 days): Visited SAE Aerotech 2011 Congress and Exhibition  
2011(1 day): Basic Metallurgy Familiarization  
2011(1 day): General Sealant Application Training  
2011(1 day): Basic Shop Procedures  
2011(1 day): Corrosion Training  
2011(3 days): CENIT Fastpost Training  
2010(2 days): HUD Installation Training  
2007(6 days): CATIA-CAD Training  
2007(2 days): Basic Composite Training  
2006(4 days): Geometrical Dimensioning & Tolerancing Training  
2006(1 day): Teamcenter Engineering Training  
2006(4 days): CATIA- Basic CAD Training  
2006(4 days): DELCAM - Basic CAM Training  
2006(3 days): DELCAM - Advanced CAM Training  
2005(1 day): ENOVIA Training  
2004(4 days): UG - Advanced CAM Training  
2004(4 days): UG - Basic CAM Training  
2004(3 days): UG - Advanced CAD Training  
2004(3 days): UG - Basic CAD Training

### ***Baltacioglu Engineering: 10.05.2003 -20.10.2003***

#### ***Service Engineer-10.05.2003 -20.10.2003***

Worked as a service engineer and workshop leader.

#### Job Trainings and Visits:

2003(21 days): Automatic Transmission Replacement Work-Birmingham & London. Worked for Voith UK.  
2003(4 days): Automatic Transmission Basic Training - Voith Turbo-Heidenheim – Germany.

**Military Service: 21.07.2001 - 21.11.2002**

***English Translator***

Turkish Air Force Command, Plan & Operations Department, Bakanlıklar-  
Ankara.

**1998 Summer Practice:** Heating and ventilating systems of a building was designed. Yalçın Teknik A.Ş.

**1997 Summer Practice:** All of the production sections of the plant (sheet metal forming, conventional and CNC machining, tubing, welding, composite and metal bonding, chemical processes and non-destructive testing, etc.) observed. Also parts, aircraft assembly and engine, flight tests are investigated. Information gathered about avionics, aerodynamics and mechanical systems. TAI.

## **ACHIEVEMENTS**

### ***As an entrepreneur:***

- "User Guidance" invention is selected among top 10 (out of 144) projects in "TechAnkara-2014" contest.
- "User Guidance" invention is selected among the top 4 (out of hundreds of business ideas in IT category) in "Yeni Fikirler Yeni İşler-2014" contest.
- "User Guidance" invention won "Teknogirişim-2014" funding support.
- "User Guidance" invention is selected among the top 10 (out of 3469 business ideas) in "Geleceğin Patronları-2013" contest.

### ***During design engineering roles:***

- "First HUD installation design for a jet trainer aircraft in Turkey" is successfully completed.
- A practical structural optimization method is found and applied to all structural designs.
- For all designs no scraps due to a design error. No structural revisions in the designs.

### ***During manufacturing engineering roles:***

- Successful technical coordination between Northrop Grumman and TAI about ADS issues.
- "First 5X AWJ system in Turkey" successfully implemented.
- For all NC programs, no scraps due to an error. No accidents in the machining centers.

### ***In mechanical engineering department of METU as a student:***

- An experimental gas turbine combustor successfully designed and manufactured. Continuous combustion is achieved.

## **EDUCATION**

2008-2011: Master of Science, Computer Engineering Department, Middle East Technical University

1995-2000: Bachelor of Science, Mechanical Engineering Department, Middle East Technical University

## **CERTIFICATE PROGRAMS**

07.2012-12.2012: Software Development Training (On-Site/300hrs), Bilge Adam IT Training & Consulting Company, Microsoft Certified Gold Partner

09.2006- 06.2007: Information Technologies (IT) Certificate Program, Computer Engineering Department, Middle East Technical University

## **LANGUAGE SKILLS**

English: Very Good

## **COMPUTER SKILLS**

Software : NX(more than 10000hrs), MS Visual Studio(more than 1600hrs), CATIA (more than 1200hrs), Vericut 5.4(more than 800hrs), MSC NASTRAN, MSC PATRAN(more than 300hrs), MS SQL, DELCAM, FiberSIM, AutoCAD, Mathcad, Teamcenter, ENOVIA, MS Office Applications, NX Advanced Simulation used for structural design purposes and total of six presentations given to engineering groups about its benefits.

Languages: C#, T-SQL

## **PATENTS**

Methods, System and Computer Program Product for User Guidance (Patent pending).

## **INTERESTS**

IT, software, mathematics, aviation, CAD, CAE, CAM, automotive, structural optimization, automation, board games.