



**Resume of** : **Yucel DEMIR**

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### PERSONAL SUMMARY

- *Design and production of first Turkish Unmanned Airship KUZGUN\_1.*
- *Design experience by using CAD tools ( CATIA ( 4 years) and UNIGRAPHICS ( 4 years ) ).*
- *Manufacturing experience on mainly F16 and CN235 parts (CNC programming by using APT & CAD/CAM module of CATIA , 7.5 years ).*
- *Familiarity with military and design standards .*
- *These tools lead cost effective design of aircraft structural parts such as bulkheads, frames and wingparts.*

### WORK EXPERIENCE

**2006 - ..... KUZGUN High Technology Design Automotive Mech. Elect. Ind. Ltd. Co. ANKARA**

***Shareholder / General Manager***

**1998 – Oct.2005 TAI TURKISH AEROSPACE INDUSTRIES INC. ANKARA**

TAI is a Turkish-American joint-stock company. The primary objective of the company is to co produce F-16 AIRCRAFT for Turkish Air Force as well as to modernize such aircraft and to manufacture Aft Fuselages, Center Fuselages & Wings for the USA Air Force. The other objectives : co produce LIGHT TRANSPORT ( CASA CN235) & TRAINER aircraft for TUAF & other countries. More than 2000 people are employed

***Senior Structural Design Engineer in Design & Development Dept.***

- Responsible for the placement of different types of Radar Antennas, installation of Flight Test Equipments and installation of Mission Computer (Modernization of Sikorsky Black Hawk Helicopters)(UG NX 1.0.1.2 & NX 2.0.4.2 ).
- Designed the Emergency Exit Door & Lower Frame of A400M for M4 period ( CATIA V4 and CATIA V5 )
- Participated conceptual design period of Forward Center Fuselage ,Emergency Exit Doors & Paratroop Door of A400M ( CATIA V4 )
- Responsible for the management of structural design and analysis group of AGRICULTURAL AIRCRAFT TEAM ( 20 engineers ).
- Designed the Door of AGRICULTURAL AIRCRAFT ( UNIGRAPHICS V14 )
- Preparation of Design Manuals for the design group
- Design of Center Fuselage of Space Allocation Mockup of A400M ( FUTURE LARGE AIRCRAFT ) at DASA-BREMEN-GERMANY ( CADD5 )

**1990 - 1998 TAI TURKISH AEROSPACE INDUSTRIES INC. ANKARA**

***Senior CNC Engineer / Programmer in Production Planning & Control Dept.***

- CNC programming of bulkheads and wing parts of F16 aircraft by using APT for 3-4-5 axis NC profilers and machining centers.
- CNC programming of bulkheads and wing parts of CASA CN235 aircraft by using APT and CATIA ( CAM Module-V3.5.1 ) for 3-4-5axis NC profilers and machining centers.

**1986 - 1989 ASELSAN Military Electronics Industries Inc. ANKARA**

ASELSAN is the main producer of military electronic equipments for Turkish Army. More than 3000 people are employed.

***Mechanical Design Engineer in Research & Development Dept.***

- Furnishing of military vehicles for electronic warfare equipment.
- Furnishing of shelters for electronic warfare equipment.

## COMPUTER SKILLS

- CATIA V5 CAD APPLICATIONS ( 2000 hrs )
- EDS - UNIGRAPHICS NX 1.0.1.2 & NX 2.0.4.2 CAD APPLICATIONS ( 1700 hrs )
- CATIA V4 CAD APPLICATIONS ( 1300 hrs )
- CATIA V3.5.1 CAD & CAM APPLICATIONS ( 4000 hrs )
- EDS - UNIGRAPHICS V14.01 CAD & CAM APPLICATIONS ( 1500 hrs )
- CADD5 V6.1.5 & V8.1.1 CAD APPLICATIONS ( 300 hrs )
- WORD , EXCEL , POWERPOINT etc on PCs

## EDUCATION

- 1986 - 1989**      **Middle East Technical University, ANKARA**  
**Degree :** Master of Science in Mechanical Engineering.  
**Subject :** Cracked Strip Problem Subjected To A Nonsymmetrical Transverse Loading By A Stamp.
- 1981 - 1986**      **Middle East Technical University, ANKARA**  
**Degree :** B.Sc. in Mechanical Engineering Dept.  
**Standing:** Honor ( Cum. GPA 3.14 / 4.00 ).  
2 Times High Honor, 4 Times Honor.
- 1977 - 1980**      **Yildirim Beyazit Industrial High School, ANKARA**  
**Degree :** Technical Draftsman.  
**Standing:** 9.14 / 10.00.

## CAREER DEVELOPMENT

- 1) **STRUCTURES ENGINEERING ( by Mike MOHAGHEGH - BOEING )**  
Purpose : design and analyze aircraft structures satisfying static strength, durability, damage tolerance, cost and manufacturing requirements.
- 2) **CATIA V4 ( by CASA )**
- 3) **CATIA V5**
- 4) **CATIA METAPHASE INTERFACE ( by T Systems )**
- 5) **UNIGRAPHICS**
- 6) **CADD5**
- 7) **LEARNING THROUGH DISCUSSION**
- 8) **BUILDING THE PERSONAL SKILL SYSTEM**
- 9) **TOTAL QUALITY MANAGEMENT**
- 10) **CONFLICT MANAGEMENT & TEAM WORK**

## PERSONAL INTERESTS

- 1) **PHOTOGRAPHY**
- 2) **MOUNTAINEERING & ROCK CLIMBING**
- 3) **HISTORY OF ART AND ARCHAEOLOGY**

## BUSINESS REFERENCES

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