

## Şenol SERGEN

*Aeronautical Engineer*

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## Curriculum Vitae

### PERSONAL

Male, single, available for relocation

Born : November 13, 1968; İzmir – TURKEY

Appearance : 1.87m, 80kg, dark hair, hazel eyes

Driving Licence : Class B - July 1987

### EDUCATION

İTÜ (İstanbul Technical University), Faculty of Aeronautics and Astronautics, İstanbul

Graduation: BSc Aeronautical Engineering; 1989, Grade Point Average GPA=73.73/100

### AREAS of KNOWLEDGE

Technical Project Management, Systems Engineering, Software Development, Flight Mechanics, Aircraft Configuration Design, Experimental Aerodynamics, Missile Aerodynamics

### LANGUAGES

⊙ Fluent in English, both written and spoken

⊙ Fair in Spanish

### COMPUTER

- ⊙ Extensive programming skills in PASCAL, FORTRAN, C++ and BASIC programming languages. Capable of programming efficiently, complying with software development standard practices.
- ⊙ Experience with DOS, UNIX and WIN-NT operating systems and various user interfaces.
- ⊙ Familiar with CRAY Super Computer, VAX 11/780 Main Frames; HP, DEC, SGI workstations and personal computers.
- ⊙ Excellent command on DOS, UNIX and WINDOWS based word processors, spreadsheet programs, graphic editors, internet applications and Application Development Kits. Easy and fast adaptation to any software.
- ⊙ Basic level user of UNIGRAPHICS and CATIA solid modelling tools.

### HOBBIES

Sports : Basketball, soccer, table tennis, tennis, fencing, trekking

Fine arts : Photography, drawing, industrial design, writing, modelling, painting

Interests : Formula-1, collectibles (coin, notes), movies

Member of Ankara Association of Photographic Arts and former İzmir Fencing Club

### REFERENCES

Prof. Veysel ATLI, Erciyes University Civil Aviation College, KAYSERİ

Prof. Eres SÖYLEMEZ, ODTÜ Mechanical Engineering Faculty, ANKARA

### EXPERIENCE

*TAI-Turkish Aerospace Industries Inc.*

*Akıncı, Ankara – TÜRKİYE*

*1996-Current*

#### Leader, New Development Projects

Systems Engineering and Technical Program Management activities of new development projects, especially UAV developments.

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### **Chief Engineer, Flight Sciences**

Establishing a functional infrastructure in Flight Sciences Section which contains flight loads, flight performance, configuration design, weight and balance, flight mechanics, aerodynamic design and flight test engineering disciplines. Conducting technical management activities.

### **UAV Chief Engineer**

Pre-contract and contract activities of Target Drone, an indigenous development and delivery program to meet the needs of the Turkish Armed Forces (TAF), and TAI's other UAV (Unmanned Aerial Vehicles) related programs. Conducting technical project management activities. Design and development of a network based ground control system (GCS) software for UAVs and improvement of the software to form a ruggedized laptop based tactical ground control station. Conducting flight tests. Developing aircraft flight performance codes. Preparing after-sales documentation. ISO9001 standardization studies.

*901<sup>st</sup> Army Aviation Depot*

*Güvercinlik, Ankara – TÜRKİYE*

*1994-1995 (16 Months) - Military Service*

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### **Lieutenant**

Depot level maintenance, repair and revision of utility and attack helicopters of the TAF. Preparing procurement specs to meet the needs of maintenance, manufacturing and support departments. R&D activities in the Projects Department.

*The Scientific and Technical Research Council of Türkiye,*

*Defence Industries Research and Development Institute*

*TÜBİTAK-SAGE, Beşevler, Ankara - TÜRKİYE*

*1989-1994 (4.5 Years)*

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### **External Ballistics Specialist**

Missile aerodynamic design. Research and development of weapon systems. Analysing and developing computer codes to model aerodynamics and flight mechanics of missiles. Work organisation and scheduling, planning. Missile range tests.

*CASA – Construcciones Aeronáuticas S.A., Division de Proyectos*

*Getafe, Madrid – SPAIN*

*1992-1993 (6 Months) - Government Training Program*

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### **OJT**

Computational fluid dynamics, 2 dimensional Euler equations, boundary layer solutions, viscous / inviscid coupling, multigrid techniques, calculation of aerodynamic coefficients for CASA-3000 wing using engineering science data units.

*THY - Turkish Airlines, Maintenance Center*

*Yeşilköy, İstanbul - TÜRKİYE*

*1989 (4 Weeks) - Summer Practice*

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### **Trainee**

Wing, fuselage, landing gear, control surface and stabiliser, propulsion unit, auxiliary power unit, avionics. Revision, repair, maintenance and component manufacturing. Maintenance scheduling.

*BMC - British Motor Company*

*Pınarbaşı, İzmir - TÜRKİYE*

*1988 (4 Weeks) - Summer Practice*

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### **Trainee**

Engine and body assembling, plant organisation, work flow and working place arrangement, management, employee and work administration.

İTÜ - İstanbul Technical University, Maçka Workshop  
Maçka - İSTANBUL, TÜRKİYE  
1986 (3 Weeks) - Summer Practice

#### Trainee

Modelling, moulding, plastic snapping, welding, shaping with milling cutter, lathe and planer, levelling and measurement techniques. Manufacturing technology. On the job training.

#### PUBLICATIONS

- Şenol SERGEN and Veysel ATLI, “*Jet Flow*”, BSc. Thesis, İTÜ Faculty of Aeronautics and Astronautics, İSTANBUL, June 1989
- Şenol SERGEN, Erkut NEĞİŞ and Hasan ÇELEBİ, “*Missile Steering Methods*”, YE/TN-003, TÜBİTAK-SAGE, ANKARA, May 1991
- Şenol SERGEN and Veysel ATLI, “*Experimental Investigation of a Jet Issuing into a Cross-Flow*”, METU 1st Aviation Symposium, ANKARA, June 1992
- Şenol SERGEN, “*Prediction of Fin Roll Damping Coefficient*”, TÜBİTAK-SAGE, ANKARA, August 1992
- Şenol SERGEN, “*Thrust and Torque Model for a Grooved Nozzle*”, DB-92/10, TÜBİTAK-SAGE, ANKARA, September 1992
- Şenol SERGEN, “*Base Flow Around Axisymmetric Bodies*”, DB-92/5.0, TÜBİTAK-SAGE, ANKARA, August 1992
- Şenol SERGEN and Adel-Sayed Abbas BAYOUMI, “*Study on ESDU Data Sheets and ESDU Aerodynamics Software*”, NT-0-AUAAB-93011, Construcciones Aeronáuticas SA., Madrid- SPAIN, January 1993
- Şenol SERGEN and Adel-Sayed Abbas BAYOUMI, “*Computational Fluid Dynamics (Viscous/Inviscid Coupling)*”, YE/93-1, TÜBİTAK-SAGE, ANKARA, October 1993
- Şenol SERGEN, “*Velocity Measurement in the Wake Behind a Circular Cylinder*”, AE-547 Project, METU Aeronautical Engineering Faculty, ANKARA, January 1994
- Şenol SERGEN and Cenk ÖNEN, “*Design of an Open Circuit Low-Speed Wind Tunnel*”, AE-547 Term Project, METU Aeronautical Engineering Faculty, ANKARA, January 1994
- Şenol SERGEN, “*ANADOLU-107 Flight Simulation Results*”, 22139, TÜBİTAK-SAGE, ANKARA, April 1994
- Gökmen M.YAZICIOĞLU, Şenol SERGEN and Ömer TANRIKULU, “*6DoF Time Domain Flight Simulations of SAGE-71A*”, 22139, TÜBİTAK-SAGE, ANKARA, April 1994
- Şenol SERGEN, “*Rocket Aerodynamics and Flight Simulation of Ballistic Missiles*”, 1st Aviation Symposium, Air Force Academy, İSTANBUL, June 1994
- Şenol SERGEN, “*FLIGHT - 6DOF Flight Simulation Program*”, 22161, TÜBİTAK-SAGE, ANKARA, July 1994
- Şenol SERGEN, “*A Subsonic Pitot-Static Tube Design for Ankara Wind Tunnel*”, 22139, TÜBİTAK-SAGE, ANKARA, August 1994
- Şenol SERGEN, “*FOCUS (Flight Operations Center for UAV Systems) - Ground Control Station Software*”, UKS2100-1.0, TAI, ANKARA, December 1996
- “*Effect of Environmental Conditions on TURNA System Performance*”, HU-TN-19, TAI, ANKARA, May 2001
- Şenol SERGEN, “*TAI Aerial Target Systems*”, poster paper presented in EURO UVS-European Unmanned Vehicle Systems Association, UVS TECH 2001 Conference 6-7 December 2001; Royal Military Academy, Brussels-Belgium
- Şenol SERGEN, “*Flight Test Experience of TURNA Target Drone*”, seminar paper presented in the 17th Bristol International UAV Systems Conference; 8-10 April 2002, Bristol-UK