


# Turgut Akyürek

Name	Turgut	
Family Name	AKYÜREK	
Title	Assist.Prof.Dr.	
Date of Birth	23-04-1959	
Place of Birth	Nevsehir/Turkey	
Nationality	Republic of Turkey	
Marital Status	Married	
Phone	(90-312) 2331303	
E-mail	<a href="mailto:turgutakyurek@cankaya.edu.tr">turgutakyurek@cankaya.edu.tr</a>	

	<b>Page</b>
1. Education .....	2
2. Professional Experience .....	2
3. Memberships.....	3
4. Publications.....	4
a. Theses	4
b. Publications (Science Citation Index)	4
c. Publications ( <i>Symposium</i> )	4
d. Publications ( <i>Other</i> )	5
e. Submitted Seminar Papers	5
5. Projects .....	5
6. Interest Areas.....	6
7. Languages .....	7
8. Computer Skills .....	7
9. Lectures Given .....	8
10. Special Training Taken .....	9
11. Award and Scholarship .....	9
a. Award	9
b. Scholarship	9

## 1. Education

Degree	School	Date	Point	Honor
Ph.D.	Mechanical Engineering, Middle East Technical University, Ankara, Turkey	1986-1991	3.50/4.00	+
M.Sc.	Mechanical Engineering, Bosphorus University, Ankara, Turkey	1982-1984	3.44/4.00	+
B.Sc.	Mechanical Engineering, Bosphorus University, Ankara, Turkey	1980-1982	3.10/4.00	+
B.Sc.	Military Academy, Land Forces Command, Ankara, Turkey	1976-1980	3.93/4.00	7 <sup>th</sup> in 914
High School	Kuleli Military High School, Land Forces Command, Istanbul, Turkey	1973-1976	9.81/10.0	2 <sup>nd</sup> in 825

## 2. Professional Experience

Position	Address	Dates
Instructor	Mechanical Engineering Dept., Çankaya University, Ankara, Turkey	2011-
Guest Instructor Acting Chairman	Mechanical Engineering Dept., Gazi University, Ankara, Turkey Turkish Standards Institution, Defense Standards & Engineering Standards Preparation Groups, Acting Chairman, Ankara, Turkey	2007-2010
Guest Instructor	Defense Sciences Institute, Land Forces Military Academy, Ankara, Turkey	2007-2008
Program Manager	Chief of Weapon, Ammunition & Rocket Section, Technical Affairs Department, Ministry of Defense, Ankara, Turkey	2006-2007
Chief of Department and Instructor	Mechanical Engineering Department, Military Academy, Land Forces Command, Ankara, Turkey	2005-2006
Program Manager	Chief of Weapon Systems & Ammunition Section, Technical and Project Management Department, Land Forces Command, Ankara, Turkey	2004-2005
Planning Manager	Chief of Planning Section, Technical and Project Management Department, Land Forces Command, Ankara, Turkey	2001-2004
SPGMO Turkish Representative	Stinger Project Group Management Office (SPGMO), Defense Procurement & Technology Department (BWB), Koblenz, Germany	1998-2001
Project Manager	Research, Development & Technology Dept., Ministry of National Defense, Ankara, Turkey	1996-1998
International Relations Coordinator and Project Manager	Research, Development & Technology Dept., Ministry of National Defense, Ankara, Turkey	1990-1996
Visiting Researcher	National Research Council (NRC), National Aeronautical Establishment (NAE), Ottawa, Canada	1989-1990
International Relations	Research, Development & Technology Dept.,	1988-1989

### CV - Turgut Akyürek

Coordinator	Ministry of National Defense, Ankara, Turkey	
Chief of Department and Instructor	Mechanical Engineering Department, Military Academy, Land Forces Command, Ankara, Turkey	1986-1988
Teaching Instructor	Mechanical Engineering Department, Military Academy, Land Forces Command, Ankara, Turkey	1984-1986

### 3. Memberships

Weapon Systems and Technologies Panel, Turkish Ministry of National Defence		2014-
American Society of Mechanical Engineers (ASME)		2013-
Cankaya University, 6th Engineering and Technology Symposium, 25-26 April 2013, Ankara, Advisory Board and Assesment Committee		2013-2013
Cankaya University, 5th Engineering and Technology Symposium, 26 April 2012, Ankara, Session Chairman		2012-2012
Turkish Standards Institution, Engineering & Defense Standards Preparation Groups, Vice Chairman, Ankara		2008-2009
SAVTEK 2008, Defense Sciences Congress, 26-28 June 2008, METU, Ankara, Academic Board		2008-2008
Turkish Standards Institution, Defense Standards Preparation Group, Vice Chairman, Ankara		2007-2008
2 <sup>nd</sup> Defense Applications Modeling and Simulation Conference (USMOS 2007), Program Committee, METU, Ankara		2007-2007
NATO CNAD AC 326		2006-2007
NATO CNAD AC 327		2006-2007
3 <sup>rd</sup> Defense Technologies Congress, Academic Board, METU, Ankara		2006-2006
NATO CNAD NAAG LG4 SG2 Accuracy, Ballistics and Explosives		2004-2005
Military Academy, 1 <sup>st</sup> Defense Sciences Promotion Award, Selection Board		2003-2004
Stinger Project Group Management Office		1998-2001
Turkish Standardization Institute, Naval Group		1994-1995
WEAG, EUCLID, CEPA 3, RTP 3.4 Composite Materials for Hypersonic Missiles, Project Management Group Chairman		1992-1994
WEAG, EUCLID, CEPA 3, RTP 3.1 Aeronautical Application Technologies, Project Management Group		1991-1995
WEAG, Panel II, CEPA 3 Advanced Materials Steering Committee		1990-1998
WEAG Panel II Turkish National Coordinator		1990-1998
NATO AGARD Turkish National Coordinator		1990-1996
NATO AGARD Structures and Materials Panel		1990-1998
Turkish Standardization Institute Ship Construction Permanent Special Committee		1990-1991
NATO AGARD Turkish National Coordinator		1988-1989

#### 4. Publications

##### a. Theses

Akyürek, Turgut	Damage Tolerance Life Estimation Of Critical Parts Of A Fighter Aircraft	Doctoral Dissertation, Middle East Technical University, 1-393, 1991
Akyürek, Turgut	Fatigue Crack Growth Life Prediction And Analysis	Master Thesis, Bosphorus University, 1-121, 1984

##### b. Publications (Science Citation Index)

Akyürek, Turgut; Bilir, Ö.Gündüz	A Survey Of Fatigue Crack Growth Life Estimation Methodologies	Engineering Fracture Mechanics 42, 5, 797-803, 1992.
Akyürek, Turgut; Bilir, Ö.Gündüz	A Critique On Fatigue Crack Growth Life Estimation Methodologies	International Journal of Fatigue 14, 1, 30-34, 1992

##### c. Publications (Symposium)

Akyürek, Turgut	OSTİM Örnekleme İncelemesi Çerçevesinde Bir Bölgesel Sanayileşme Modeli Önerisi	Makine İmalat Teknolojileri Kongresi MATİT 2013, Bildiriler Kitabı, TMMOB Makine Mühendisleri Odası, 204-211, 2013
Akyürek, Turgut	Hasar Toleransında Parametrik Analiz – Devir Sayma Tekniğinin Etkisi	5. Mühendislik ve Teknoloji Sempozyumu Bildiriler Kitabı, Çankaya Üniversitesi, 217-220, 2012
Akyürek, Turgut	Neyi Yerli Üretelim – Mevcut Uygulamaya İlişkin Değerlendirme ve Öneriler	SAVTEK 2004 Savunma Teknolojileri Kongresi Bildirileri, 433-441, 2004
Akyürek, Turgut	Kara Kuvvetleri Modernizasyon Projelerinin Teknolojik Değerlendirmesi	Kara Harp Okulu Bilim ve Teknoloji Paneli, 2002
Batmaca, Semsî; Akyürek, Turgut	Araştırma-Geliştirme (Ar-Ge) Sorunları	TSK Güçlendirme Vakfı-MSB Savunma Sanayii İlişkileri Paneli Bildirileri, 33-66, 1994
Akyürek, Turgut; Bilir, Ö.Gündüz	Yorulma Çatlağı İlerlemesi Tahmin Metodolojileri Üzerinde Bir İnceleme	3. Ulusal Kırılma Konferansı Bildirileri, 69-82, 1991

**d. Publications (Other)**

Akyürek, Turgut	Hasar Toleransında Parametrik Analiz – Devir Sayma Tekniğinin Etkisi	Çankaya University Journal of Science and Engineering, Volume 10, No. 1, 91-100, 2013
Akyürek, Turgut	Support Program for the Structures and Materials Panel – Support to Greece, Portugal and Turkey 1982-1997	NATO AGARD R, 40-46, 1997
Akyürek, Turgut	TTCP-HTP 3 Collaborative Exercise: Validation Of Crack Growth Models By Comparison With Crack Growth Test Results - Cracks IV Program	National Research Council Canada, NAE, Ltr-St-1757, 1990
Akyürek, Turgut	TTCP-HTP 3 Collaborative Exercise: Validation Of Crack Growth Models By Comparison With Crack Growth Test Results - Crkgro Program	National Research Council Canada, NAE, Ltr-St-1781, 1990
Akyürek, Turgut	TTCP-HTP 3 Collaborative Exercise: Validation Of Crack Growth Models By Comparison With Crack Growth Test Results - Fastran Program	National Research Council Canada, NAE, LTR-ST-1782, 1990
Akyürek, Turgut	TTCP-HTP 3 Collaborative Exercise: Validation Of Crack Growth Models By Comparison With Crack Growth Test Results - Cracks IV, Crkgro And Fastran Programs	National Research Council Canada, NAE, LTR-ST-1788, 1990

**e. Submitted Seminar Papers**

Defence Industry: What should be manufactured domestically?	Cankaya University, Faculty of Engineering and Architecture, Ankara	03.04.2011
A Comparative Analysis of Damage Tolerance Life Estimation Methodologies Used in Aerospace Industry	Middle East Technical University, Ankara, Turkey	21.12.1994

**5. Projects**

CNC Machine for Door Machining	Project Observer on behalf of KOSGEB	2014
Unmanned Autonomous Forklift	Project Observer on behalf of KOSGEB	2012-2013
Pressurized Vapour Activated Wiper Pump	Project Referee on behalf of KOSGEB	2012
Various Weapon, Ammunition, Rocket and Missile Projects	Technical Services Department, Ministry of National Defense, Ankara, Turkey	2006-2007
Modernization of Technical Sciences Department Laboratories	Military Academy, Land Forces Command, Ankara, Turkey	2005-2006
Various Weapon Systems and Ammunition Projects	Technical and Project Management Department, Land Forces Command, Ankara, Turkey	2004-2005

CV - Turgut Akyürek

Stinger Missile Coproduction	Stinger Project Group Management Office (SPGMO), Defense Procurement & Technology Department (BWB), Koblenz, Germany	1998-2001
Meeting the Defense Industry Requirements Domestically	Research, Development & Technology Dept., Ministry of National Defense, Ankara, Turkey	1996-1998
Composite Materials for Hypersonic Missiles (RTP 3.4)	Turkish-French & German common project, Project Manager, Research, Development & Technology Dept., Ministry of National Defense, Ankara, Turkey	1992-1994
Aeronautical Application Technologies (RTP 3.1)	Turkish-German-French-Dutch-Italian-Portuguese common project, Research, Development & Technology Dept., Ministry of National Defense, Ankara, Turkey	1991-1995
M113 Armored Personnel Carrier Modernization	Turkish-Pakistani-Egyptian-Jordanian common project, Research, Development & Technology Dept., Ministry of National Defense, Ankara, Turkey	1990-1991
A Comparative Analyses of the Fatigue Codes used by Aeronautical Industries	National Research Council (NRC), National Aeronautical Establishment (NAE), Ottawa, Canada	1989-1990

**6. Interest Areas**

Fracture Mechanics	Crack initiation and propagation
	Combat and prevention of fatigue
	Non-destructive inspection
	Friction and wear (fretting)
Fatigue, Fatigue Testing	Cyclic loading, random loading
	Load monitoring, load history, load history prediction
	Data acquisition, reduction and analysis
	Cumulative damage
	Fatigue life prediction
	Standardization of tests (FALSTAFF)
Damage Tolerance	Fail safety
	Crack propagation mechanisms
	Stress intensity factor calculation
Composite Materials	Polymer, Metal and Ceramic Matrix Composites
	Production and Testing
Weapon System Design and Ballistics	Weapon System Design, Production, Testing and Evaluation
	System Integration
	Internal ballistics
	External ballistics
Project Management	Terminal ballistics, armor, impact mechanics
	Program Management
	R&D Project Management

CV - Turgut Akyürek

	Systems Project Management
Defense Technologies	Technology management, planning
	Technology matrices
	Critical technologies
Planning, Programming and Budgeting	Future planning
	Programming
	Cost analysis and budgeting
Organizational Restructuring	Restructuring
	New organization establishment
Lecture Delivery	Engineering Mechanics
	Innovative Engineering Analysis and Design
	Mechanical Engineering Orientation
	Material Science
	Strength of Materials
	Internal Combustion Engines
	Machine Design
	Ballistics
	Weapon System Design
	Fracture Mechanics
	Project Management
	Applied Mathematics
	Research Methods
	Failure Analysis

**7. Languages**

Turkish	Native Language
English	KPDS (93/100) ECL (98/100)
German	Introductory

**8. Computer Skills**

Programming Languages	Fortran 95, Fortran 77 Basic
Office Programs	Windows MS Office (Word, Excel, Power Point, Access, Project) Front Page Photoshop Adobe Acrobat Writer Internet Explorer
Engineering Programs	Package Matlab AutoCad Inventor Solid Works

CV - Turgut Akyürek

		Ansys Quick Load Quick Target Cracks IV Fastran Crkgro
Written Programs	Package	Fatigue, Rate, Loads

9. Lectures Given

	Lecture	1. Place
Undergraduate	Innovative Engineering Analysis and Design (ME407)	Cankaya University
	Mechanical Engineering Orientation (ME102) Workshop	Cankaya University
	Strength of Materials (ME202)	Çankaya University
	Engineering Mechanics: Dynamics (ME204)	Cankaya University
	Statics (ME203)	Cankaya University
	Computer Aided Engineering Drawing II (ME114)	Cankaya University
	Computer Aided Engineering Drawing I (ME113)	Cankaya University
	Computer Aided Engineering Drawing (IE111)	Cankaya University
	Mechanics of Materials	Gazi University
	Weapon Systems and Ballistics	TLFC Military Academy
	Propulsion Systems and Weapon System Design	TLFC Military Academy
	Internal Combustion Engines	TLFC Military Academy
	Machine Design	TLFC Military Academy
	Material Science	TLFC Military Academy
	Strength of Materials	TLFC Military Academy
	Engineering Mechanics I (Dynamics)	TLFC Military Academy
Engineering Mechanics I (Statics)	TLFC Military Academy	
Graduate	Advanced Strength of Materials (ME526)	Cankaya University
	Research Methods	TLFC Military Academy
	Failure Analysis	Gazi University



## 10. Special Training Taken

Orientation Training	Land Forces Military Academy, Ankara, Turkey	12.09.2005-16.09.2005
International Cadre Training	Land Forces Language School, Istanbul, Turkey	11.05.1998-19.06.1998
International Cadre Training	Land Forces Command Intelligence School, Ankara, Turkey	13.04.1998-31.08.1998
Teaching Techniques	Navy Karamürsel Training Center, Gölcük, Turkey	07.09.1987-25.09.1987
Applied Gas Dynamics	901. Aircraft Main Depot and Factory Command, Ankara, Turkey	29.06.1987-03.07.1987

## 11. Award and Scholarship

### a. Award

Money Award (Staff Prominent Service)	General. M. Hikmet BAYAR, Turkish Land Forces Commander	19.07.1995
---------------------------------------	---	------------

### b. Scholarship

NATO Defense Research Scholarship	National Aeronautical Establishment, National Research Council, Ottawa, Canada	01.09.1989-01.09.1990
-----------------------------------	--	-----------------------