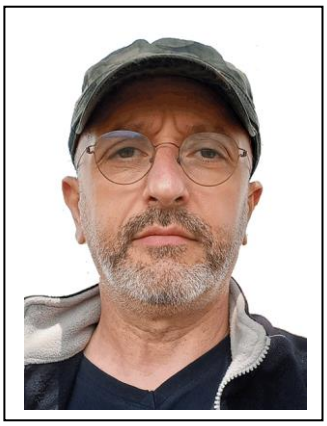
CURRICULUM VITAE (CV)



Name and Surname : Bülent ÖZGÜR
Occupation : Mechanical Engineer
Date of Birth : 31 Ağustos 1970
Web Site : www.bulentozgur.com
Working Time : 31 years
Nationality : T.C.

KEY QUALIFICATIONS:

Metrology, Dimensional Metrology. An Advanced theoretical and practical qualifications on Measurement Techniques and Uncertainty Calculation of Universal measurement machine , Interferometric Measurements , Flatness measurement of surface plate, Line scale measurements, Steel tape and rule measurements, Software development with MS VB6, Device interfacing with software, Solidworks Mechanical 2D/3D design,Training, Consultancy, Assessment (ISO 17025) on Dimensional Metrology.

EDUCATION:

Bachelor of Science (B.S) : YILDIZ Technical University (YTU),
Mechanical Engineering Department
1987-1991, İstanbul / TURKEY

High School : Haydarpaşa Technical High School
Machinery Department
1983 – 1987, İstanbul / TURKEY

EMPLOYMENT HISTORY:

2024 January – Retired

1999 November – 2024 Januarry
TÜBİTAK – National Metrology Institute (UME), Gebze / KOCAELİ
Researcher
Dimensional Group Laboratory

1997 - 1999
Makina Takım Endüstrisi A.Ş., Gebze / KOCAELİ
in-process Control Engineer

1993 – 1997
Metkon Metal Konstrüksiyon San. ve Tic. A.Ş., Gebze / KOCAELİ
Project Engineer, Design Engineer, Site Area Engineer

PROJECTS: (As a Project Manager)

1. 1. Research Project, “New Design 10m Bench – Establishment of Tape Measure and Steel Rule Calibration System”, 2016, UME, Bülent Özgür
2. 2. Research Project, “5m bench – Establishment of Tape Measure and Steel Rule Calibration System”, 2004 UME, Bülent Özgür, Tanfer Yandayan
3. 3rd Research Project, “Establishment of Stage micrometer calibration system”, 2008, UME, Bülent Özgür, Eyüp Bağcı, Tanfer Yandayan

PROJECTS: (As a Project Participant)

1. TÜBİTAK-SASO, Wavelength Laboratory, “Long Gauge Block Comparator Manufacturing”, Control software for the relevant device was realized.
2. EMRP - JRP SIB58 Angles, Angle Metrology Project, design revision of HPSAG (High Precision Small Angle Generator) with high precision and repeatability operating in the range of (± 8”) and LRSAG (Large Range Small Angle Generator) operating in the range of (± 1000”) The design and control software of the relevant devices were carried out.
3. TÜBİTAK-TSE KAMAG1007 Project,”Design, Development and Installation of Reference Systems for Hardness Reference Block Calibration, 2001-2016 - As a Researcher and Designer
4. TÜBİTAK-TSE KAMAG1007 Project,” Power Machinery Design, Development and Installation, 2001-2016 - As a Researcher and Designer
5. National Project, 108M281, “3D Geometric Characterization of Cylindrical Parts with Nanometer Precision”, Scientific and Technological Research Projects Support Program (TÜBİTAK 1001), 2009-2011, as Researcher (Design and Device Control Software)

DESIGN EXPERIENCE

Within TÜBİTAK UME

1. UME Hardness Laboratory Project is "Hardness Testing Device" design made for TSE
2. “WATT-BALANCE system 2nd generation” design within the UME WATT BALANCE laboratory
3. Establishing the "Glass ruler, scale and step micrometer calibration system within the UME Dimensional Laboratory, and making the relevant apparatus designs"
4. "Establishment of Steel Ruler and Tape Measure Calibration System" within UME Dimensional Laboratory, Designing the device
5. Designing the apparatus used in the laboratory within the UME Dimensional Laboratory, especially in the calibration of angle devices

SOFTWARE AND COMPUTER EXPERIENCE

CAD System : SolidWorks
Operating System : Windows
Software Language : Microsoft Visual Basic 6.0 (RS232, GPIB, HPIB etc.) device communication connections
Microsoft Office (Word, Excel, Power point etc.)

Developed Software:

I supported the creation of many software and designs used within the laboratory and in other laboratories.

I also supported other UME laboratories projects from time to time in terms of design. Some of these studies are

1. "**1 m small angle generator**" design and user software sold to ASELSAN and SASO-Arabia
2. "**Temperature and Humidity Tracking Software**", which monitors the ambient temperatures of many laboratories throughout UME for years
3. Force Lab. "Rupture Test – Video Monitoring" software written for

My developed software for UME Dimensional Lab,

- **STEELRULE** : Steel Ruler and Tape Measure Calibration Program
- **STAGEMOTION** : Stage Micrometer cal. Mask device control software for
- **SAG1mSoftv1** : Calibration software for small angle generator sold to Aselsan NANO3D: System motion and control software developed for Tübitak 1001 project 108M281
- **Dynamic ProbKal** : Software for collecting probe data with a multimeter
- **COMPARATOR** : Source code of the software taken from PTB in the laboratory commissioning.
- **LaserProb** : Probe calibration system control and measurement with laser interferometer.data collection software
- **PZT-MW-LASER** : Autocollimator and autocollimator of the angles created in the small angle generator. İt reads data simultaneously with laser interferometer angle optics and data collection.

My developed software for UME's Other Lab.

- **CAPTURE** : For material rupture test (to observe the rupture stages) Image capture software for the desired time period (FORCE LAB.)
- **FORCELENGTH** : Data is collected from the force sensor in the desired time period. (FORCE LAB.)
- **MASSLabPRESSURE** : Data is collected from the pressure sensor in the desired time period. collection (MASS LAB.)
- **LabTEMP** : desired time from UME-made temperature and humidity sensorssoftware that collects data during periods (many UME Labs also haveIt is used to maintain laboratory condition in Dimensional Lab. The data collected in it is sent to the server and the intranet .

My Developed software for UME's international projects

LabLongGAGE : Production of UME and SASO Saudi Arabia Metrology InstituteControl and user software of the device sold
LabTEMP : Production of UME and SASO Saudi Arabia Metrology InstituteTemperature monitoring software of the device sold
LabBENCH : “Steel Ruler and Strip” modified by UME Meter Calibration System measurement software

My developed software for the companies which I worked for before UME

CALIBRATION2000 : MTE A.Ş. Periodic monitoring of measuring devices used in by keeping and reporting calibration and maintenance times. Quality control software (VB6 and ACCESS database) that provides maintenance and

Attended International Comparison

Participated in the comparison measurements as "Contact Person and Practitioner" on behalf of TÜBİTAK UME.

1. EUROMET.L-S17_ (Project Nr.875) Steel tape measure - 2006

2. EURAMET.L-S27 _ (Project Nr.1433) Steel Tape - 2022

3. EURAMET.L-S29 _ (Project Nr.1488) Stage Micrometer - 2022

Executed National Comparison

As a PILOT laboratory, 18 national Level 2 laboratories participated in the comparison measurements and acted as coordinator and rapporteur in the measurements.

• TÜBİTAK UME – “National Comparison of Steel Ruler and Tape Measure” - 18 National participating laboratories, Bülent Özgür, Tanfer Yandayan

QUALITY SYSTEM ISO17025 / ISO 9001 EXPERIENCE

• Supporting the quality system of TUBITAK UME Dimensional Laboratory in accordance with the ISO 17025 standard, preparing the relevant procedures, instructions and forms and making the necessary revisions for their sustainability.

• Official technical expertise duty for auditing and examining the quality system structure of laboratories accredited by TÜRKAK according to the ISO 17025 standard.

• MTE – Machine Tool Industry, where I worked before UME. Inc. Working as a Manufacturing Control Quality Engineer while working under the Quality Assurance Directorate at

• Receiving ISO 9000 quality system training from KALDER (while at MTE A.Ş.).

• Receiving ISO 9000 In-house quality auditor training from KALDER (while at MTE A.Ş.).

• Receiving statistical process control training from KALDER (while at MTE A.Ş.).

ASSIGNMENTS PARTICIPATED ABROAD

Country of destination	Institution of study	Subject of Duty	Duration and year of duty
FINLAND	Metrology Institute (VTT MIKES), ESPOO	"Dimensional and Related Measurements at the macroscopic Scale" conference and making 2 articles and 2 poster presentations in English as the first author.	16.10.2017 20.10.2017
AUSTRİA	Metrology Institute (BEV),	"EMPIR PRT , SRT-r06 Length measurements for volume metrology" representing TÜBİTAK UME at the meeting	21.06.2017 24.06.2017
SAUDI ARABIA	Metrology Institute (SASO)	**Make a Device** The control software and temperature sensors monitoring software of the UME-made "Long Gauge Block Comparator" device were developed by me. (2 software) **Make a Device** "5m BENCH tape measure and steel rule calibration device" and development of the control software by me (1 piece of software), creation of instructions and uncertainty budgets. **Technical Training** Giving training on "Granite and Steel Table Calibration with Talyvel 6 Level meter device". **Technical Training** Giving training on "Use of Laser Interferometer and distance optics in linear measurements".	2014 – 2016 5 different assignments at 5 different times
POLAND	Metrology Institute (GUM)	SIB-58 Participation as project staff for project presentation. Task: Preparation of LRSAG and HPSAG 2 control and user data collection software used in the project	3 Days 04-06.06.2014
SWISS	LEICA St. Gallen Geodesy Instrument Manufacturing Company (METAS), Bern	Examination of the constructions of EDM Calibration systems.	3 Days 09-12.04.2006
		Laboratory on-site inspections	2 Days 12-14.04.2006 2006
GERMANY	Physikalisch Technische Bundesanstalt (PTB)	Examination of Steel Tape and Ruler measuring systems at PTB before installation at UME and Angle standards measurements	2 weeks May 2000

SCIENTIFIC PUBLICATIONS:

1- ”Application of the differential Fabry–Perot interferometer in angle metrology”, M Çelik, E Şahin, T Yandayan, R Hamid, A Akgöz, B Özgür, M Çetintaş and A Demir. Measurement Science and Technology, 20 January 2016

2- “A motorized 5 m tape comparator for traceable measurements of tapes and rules”, Tanfer YANDAYAN, Bülent ÖZGÜR, 25.11.2013

3- “High precision small angle generator for realization of SI unit of plane angle and calibration of high precision autocollimators”, Yandayan T., Ozgur B., Karaboce N. and Yaman O. To be published in Meas. Sci. Technol. 23 (2012). The poster is available www.macroscale.org

4- “Small Angle Generators for Angle Measurement”, International Metrology Conference CAFMET 2010, Tanfer Yandayan, Nuray Karaböce, Bülent Özgür, Orhan Yaman

5- "Çizgi skalalı standartlar ve ölçüm yöntemleri”, TMMOB Makine Mühendisleri Odası, 7.Ulusal Metroloji Kongresi 30 Ekim-1 Kasım 2008 İzmir - TÜRKİYE, Bülent ÖZGÜR, Doç.Dr. Tanfer YANDAYAN

6- “5m Bench Çelik Cetvel VE Şerit Metre Kalibrasyon Sistemi", TMMOB Makine Mühendisleri Odası, 6. Ulusal Metroloji Kongresi, 17-18 Kasım 2005, Eskişehir, TÜRKİYE, Bülent ÖZGÜR, Dr. Tanfer YANDAYAN

7- "5m measurement system for treacable measurements of tapes and rules" Recent Developments in Dimensional Metrology – SPIE Conference, San Diego, USA, 1-8 August 2003, Dr. Tanfer YANDAYAN, Bülent ÖZGÜR"

8- “New Modular 10m-Bench System for Traceable Measurements of Steel Tapes and Rulers at TUBİTAK UME”, Bülent ÖZGÜR, Okhan GANİOĞLU, Muharrem AŞAR, Ali Ekber KARADAĞ, MacroScale 2017 - Finland Recent developments in traceable dimensional measurements

9- “Upgrade of 5m-Bench System for Traceable Measurements of Tapes and Rules at SASO-NMCC Dimensional Laboratory”, Bülent ÖZGÜR, Okhan GANİOĞLU, Nasser Al-Qahtani2, Faisal Al-Qahtani2, MacroScale 2017 - Finland Recent developments in traceable dimensional measurements

OTHER PUBLICATIONS:

1. Technical Report, “Electronic Distance Meter (EDM) and Theodolite Calibration Training Report ”, April 2006
2. Technical Report, “Steel Tape and Rule Calibration System Report ”, December 2004
3. Technical Report, “Stage Micrometer Calibration System Report ”, January 2009

Membership in Professional Societies:

The member of UCTEA Union of the Chamber of Turkish Engineers and Architects İSTANBUL

TRAININGS:

1. C Programming Language Basic Training
   C & System Programmers Association, April 2010
2. Short Gauge Blocks And Their Calibration
   Turkish National Metrology Institute (UME), February 2010
3. Short Gauge Block Comparators And Their Calibration
   Turkish National Metrology Institute (UME), February 2010
4. Office Ergonomics
   Turkish National Metrology Institute (UME), October 2009
5. Occupational Health and Safety
   Turkish National Metrology Institute (UME), March 2009
6. Presentation Techniques and Development of Presentation Skills
   Turkish Institute for Industrial Management (TUSSIDE), November 2008
7. MATLAB for Building Graphical user Interface
   FİGES, June 2008
8. MATLAB Fundementals and Programing Techniques
   FİGES, June 2008
9. Presentation Techniques and Development of Presentation Skills
   Turkish Institute for Industrial Management (TUSSIDE), November 2008
10. Research and Development Engineering and Specialization Training
    Turkish Institute for Industrial Management (TUSSIDE), February 2008
11. First Aid Training
    İlk ilkyardım Eğitim merkezi, May 2007
12. Project Management
    Turkish Institute for Industrial Management (TUSSIDE), September 2006
13. Fundamental Quality Concepts and Institutional Culture
    Turkish Institute for Industrial Management (TUSSIDE), March 2006
14. TS EN ISO/IEC 17025 Assessor Training
    Turkish National Metrology Institute (UME), December 2005
15. Strategic Management
    Turkish Institute for Industrial Management (TUSSIDE), October 2005
16. Measurement Uncertainty
    Turkish National Metrology Institute (UME), 2000
17. Organized Excellent Performance Team,
    YGM, August 1998
18. Statistical Process Control
    KALDER, April 1998
19. ZKM CNC/W Precision Coordinate Measuring Instrument
    MTE. A.Ş. / OKM JENA , January 1998

20. ULM Universal Horizontal Metroscope
    MTE. A.Ş. / OKM JENA , January 1998
21. ISO 9000 Quality Assurance Assessor Training for Company
    KALDER, May, 1997
22. ISO 9000 Quality Assurance System Training
    KALDER , April 1997

LANGUAGES:

English (Intermediate level in reading, writing and speaking) (YÖKDİL 2017 – 52,5)

CERTIFICATION

I certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

17.01.2024
Bülent ÖZGÜR
Mechanical Engineering