

Mehmet Kopru

Physicist & Prototype Developer

Personal Info

Address

Ankara / Turkey

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www

www.mehmetkopru.com

Languages

Native in Turkish

Fluent in English(TOEFL IBT 93)

Skills

Vibration, SRS Shock Tests

LabVIEW Instrument

Controlling

Embedded Control Board Design

Circuit & PCB Design

3D Modelling, 3D Printing

UV-VIS, FTIR Spectroscopy

Experienced physicist with interdisciplinary skills, who develops prototypes with multidisciplinary approaches

Work History

2013-01 -
Current

Senior Researcher, Dynamic Test Expert *TUBITAK Space Technologies Research Institute / Ankara*

(TUBITAK, THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY)

- Preparation & perform SRS shock tests with pneumatic and hammer based SRS Pyro Shock simulation system for satellite equipment
- Preparation & perform of mechanical vibration tests for observatory and telecommunication satellite equipment (ESA, NASA, MIL-STD standards)

2011-04 -
2012-10

Founder, R&D Engineer

TIG Engineering, Ankara

Management, Electronic circuit and PCB design

2009-08 -
2010-06

R&D Engineer

Milens Ltd., Ankara

Embedded software, Electrical and control board tests

Education

2011-09 -
2015-06

MSc in Advanced Technologies

Gazi University - Ankara / Turkey

2002-09 -
2009-02

BSc in Physics

METU - Ankara / Turkey

Accomplishments

- Development of radiation detector with 3 different sensors for space systems (circuit, PCB, firmware, test)
- Set up hammer based SRS Pyro shock simulation system
- Set up pneumatic SRS Pyro shock simulation system
- Development of "Building Vibration Test Setup"

Social

Internations Consul in
Ankara

Software

LabVIEW

Excellent

DIAdem

Excellent

LMS Test.lab

Excellent

Proteus ISIS, ARES

Excellent

PIC C (embedded)

Very Good

C

Very Good

Solidworks

Good

Photoshop, Lightroom

Good

Interests

Fractals

Philosophy

Natural stones

Epoxy- Silicone craft

Watches

Jewelry

Cooking

- Development of computer controlled thin film "Thermoelectric Power" measurement system at cryogenic temperatures
- Verification of SCADAS III based whole vibration system by another DAQ
- Experimental investigation of effects of ultrasonic waves on heat transfer in gaseous medium

DIY Projects:

- Acoustic levitation by ultrasound
- Vacuum jar
- Rotating laser line
- Flexible PCB
- Wireless LED
- Tactile transducer from Iphone taptic engine
- Shower filter
- Coil gun

Patents

- Coffee brewing method with cool mist (TR, Pending)

Training

- Telecommunication Satellites Environmental Tests, JAXA - Japan Aerospace Exploration Agency, Ankara/Turkey
- "STAMP Training - Workshop", MIT, Boston /USA
- Space System Verification & Validation, TSTI – Teaching Science & Technology Inc., Ankara /Turkey
- Fundamentals of Vibration for Test and Design Applications" TTI Co, Las Vegas / USA
- LabVIEW Training, Core 1, Core 2, NI, Ankara/Turkey

Publications

- M. Kopru, E. Orhan, S. B. Ocak; Experimental Study of Effects of *Ultrasonic Waves on Heat Distribution in Gaseous Medium*, *Procedia - Social and Behavioral Sciences*, 195, 2849–2858, doi:10.1016/j.sbspro.2015.06.406
- B.Kocaman, M.Kopru, B.Solak, M.Harmandali, E.Guven, E.Yilmaz; *Development of Radiation Detector (Radiation Module) With Three Different Sensors for Space Applications* *RAD Conference Proceedings, vol. 4, 2019*. Abstract accepted, manuscript sent for review.