ÇAĞRI TUNCA

RESEARCH AND DEVELOPMENT ENGINEER, GEOLOGIST, MAKER

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Çankaya, Ankara/TR

PERSONAL

Birth	March 9th, 1989
Nationality	Turkish
Languages	Turkish, English
Military Service	Turkish Naval Forces, 2018
Driver License	Class B, 2008

EDUCATION

M.Sc. (quitted)
2016-2019
geochemistry
Ankara University
Graduate School of Natural and Applied Sciences

Thermobarometric analysis with electron micro probe measurements, hyperspectral image processing and spectral pattern recognition.

B.Sc.
2008-2016
geological engineering
Ankara University
Faculty of Engineering

Web based cross-platform geochemical database and integrated online GIS app for field use.

2002-2007
high school degree
Ataturk Lycee
Anatolian High School

Major in science and math.

INTERESTS

micro gravity biomass production systems

hyperspectral imaging and remote sensing

planetary geology

IoT and embedded systems

additive manufacturing and machining

chemical and electric propulsions

product design and manufacturing

SKILLS

jQuery, HTML5, CSS, php, SQL, jSon , C++, Java, Python, Matlab

uXRF, XRF, Raman Spec., XRD, ICP-OES, EPMA

Adobe CC(Ps, Ai, Pr, Ae) Fusion 360, qGIS, ArcGIS, Google Apps

FDM/SLA 3D printing, through-hole and surface mount soldering, composite crafting, thermoplastic and metal working, CAM programming

PROFILE

I am a hopeful futurist; who believe that just being a spectator isn't going to help much to make sure the future is good. I took part in various engineering projects, worked at earth science labs during my study. After a brief time in the defense industry, founded Novaponics with two of my friends, to contribute for a better future. Novaponics started its journey by establishing aeroponic vertical farming systems, with the ultimate goal of developing autonomous biomass production systems that can work in microgravity or on other celestial body.

I'm a social and talkative person and have a peaceful personality. As a side effect of my curiosity about the universe and how it works, I have embraced many field of interests over the years. Although being "jack of all trades" often come handy, "master of none" part isn't fun. That's why I'm always eager to learn more.

WORK EXPERIENCE

2019
co-founder, R&D lead
Novaponics Agro-Tech Co. Ltd.
2019 - current

Development and operation of aeroponic vertical farming system providing fresh greens/herbs for local gastronomy businesses and consumers under Ceres® brand. Brand and product development of Ceres® µFarm vertical farming systems and Apollo grow lights.

2017
R&D engineer
KLC Defence Industries Co. Inc.
2017 - 2018

Project and product design of a portable RCWS (with subsonic ammunition) to be used on consumer class vehicles. Procurement and follow-up of U.S. Department of Defence's contracts on DLA's Internet Bid Board System (DIBBS). CAD/CAM design and CMM measurments for various parts.

2017
part-time course assistant
Ankara University, Dep. of Geological Engineering
2017

Practice assistant of C++ programming course for undergrad./ grad. students.

2016
project fellow, instrument operator
Earth Sciences Application and Research Center, YEBIM
2016 - 2018

Geochemical and mineralogic analysis with; EPMA, µ XRF, XRF, FT-IR, confocal Raman microprobe spectroscopy , ICP-OES and XRD. Operator for; Thermo Fisher Sci. DXR3 Raman Mic., JEOL 8530F Electron Micro Probe, Inel Equix X-Ray Diffraction.

2012
R&D staff, GPR operator
Ankara Yer Bilimleri Co. Ltd.
2012 - 2013

Ground penetrating radar (GPR) operator at Superonline F/O infrastructre project at Yenimahalle, Ankara. Research and development efforts on improving data analysis methods of existing GPR technology for use in urban enviroment.

2011
technical assistant
VizeraLABS Co. Ltd.
2011

in vizera project which was 3d scaning and projection device that performs accurate projections on physical objects.

2011
part-time lab assistant
Earth Sciences Application and Research Center, YEBIM
2011-2016

Sample preparation for XRD, XRF and ICP-OES. XRD, XRF and GPR operator.

2008
web developer, photographer
freelance
2008-2015

Dynamic cross-platform web app/page. Scientific and commercial photography.