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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) geochemistry
2016-2019 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. geological engineering
2008-2016 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

JavaScript, php, SQL, HTML5, CSS3,
C++, Python, Java, Matlab
uXRF, XRF, Raman Spec., XRD, ICP-OES, EPMA
Adobe CC(Ps, Ai, Pr, Ae), Figma, Fusion 360,
ArcGIS, Visual Studio, Google Workspace, Trello
FDM/SLA 3D printing, through-hole and
surface mount soldering, composite crafting,
thermoplastic and metal working, CAD



ÇAĞRI TUNCA

RESEARCH AND DEVELOPMENT
ENGINEER, GEOLOGIST, MAKER



PROFILE

I am a hopeful futurist; who believes 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 farms 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 comes handy, "master of none" part is no 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 - 2022

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

Initial product/project 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 measurements 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.

2014

project fellow, instrument operator
Earth Sciences Application and Research Center, YEBİM

2014 - 2018

Geochemical and mineralogic analysis with; EPMA, µXRF, 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 infrastructure project at Yenimahalle, Ankara. Research and development efforts on improving data analysis methods of existing GPR technology for use in urban environment.

2011

technical assistant
VizeraLABS Co. Ltd.

2011

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

2008

web developer, photographer
freelance

2008-2015

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