

## CONTACT

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## 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 proces-  
sing 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.

**high school degree**  
2002-2007 **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, 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 - 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

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.