

ONUR EFE

PERSONAL INFORMATION

Born in Turkey, 29 October 1989

email onur.efe44@gmail.com

website <https://www.linkedin.com/in/onurefe/>

phone +90 (536) 796 54 65

WORK EXPERIENCE

*Arşimet Yayınları
Dershanesi*

*2011.Q3–
2012.Q3* **Mathematics Teacher**

Worked as mathematics teacher, helping students at their study times and giving classes according to needs of them; preparing them for YGS/LYS exams.

*Sınav Dergisi
Dershaneleri*

*2013.Q3–
2014.Q2* **Mathematics Teacher**

This job of mine was similar to my previous experience at Arşimet Yayınları Dershanesi.

*Valensas
Technology
Services*

*2014.Q3–
2015.Q3* **Embedded System Developer**

Worked on hardware and software development about IoT(Internet of Things) technologies. In this context eleven IoT projects has been realized with the students of Koç University. Also production of the device called Veacon is achieved.

*Medialab
Technology*

*2015.Q4–
2016.Q3* **Mechatronics Engineer**

In this start-up company, we tried to product a device called Gixal. Device was an handheld camera controller and stabilizer which provided an intuitive user experience. Fully featured working prototype has been realized; but the company is lacked of resources to put device into production line. Since this period, project is at it's latent state.

*Vivosens
Biotechnology*

*2016.Q4–
2017.Q3* **Electronics Engineer**

This company aimed to develop a healthcare product(hardware based) for personal use. Mentioned product was a biosensor which is capable of detecting pathogens, mostly some specific bacteria. System was composed of hardware capable of making electrochemical analysis (potensiostat), an electrochemical cell which is designed to change it's electrical properties when experienced the existence of pathogens and desktop software. My task in this project was to develop hardware(circuit design, firmware development) and to develop desktop software.

Axolotl Biosystems

*2017.Q4–
2018.Q2* **Chief Scientific Officer**

In Axolotl Biosystems, we are developing a bioprinter. This is a machine which is capable of 3D printing biological materials and living cells. Aim of such a system is to provide a versatile tool for research purposes which requires living human tissue, which is quite hard to obtain. Technology has the potential to be applied in treatment purposes which includes irreversible loss of functional body tissue. Printing organs for human implantation can be possible at the

future. In this period, machine is to be generally applied on medication industry. First prototype of the device has been realized.

<i>Cihangir Halk Egitim Merkezi</i>	2017.Q4– 2018.Q1	Robotics Teacher	At Cihangir Halk Egitim Merkezi; I was giving lessons and arranging workshops about engineering and mostly electronics for the BAIHL High School students.
<i>THY, Turkish Technic</i>	2018.Q2– 2018.Q4	Software Developer	Turkish Technic's Education Department aims to develop a e-learning management system to automatize it's education process. My task in this project is to develop software components necessary to achieve that kind of task. Python programming language is used dominantly during development cycle. Also Javascript and HTML integration at the web side is required. Open source software named Open Edx is used as template to ease software development cycle.
<i>Tubitak 1003, 116E867</i>	2018–Present	Researcher	In this project, we aim to develop a lab-on-a chip sensor capable of detecting circulating tumor cells(CTCs). By the use of such sensor early cancer detection would be possible. My task at this project is to develop holographic microscopic technique to obtain cell surface mechanic data in three dimenions. In order to achieve this, I study optics and hologrpahy technology and MEMS fabrication techniques.

EDUCATION

<i>Turkish Naval Academy</i>	2007-2010	Electronics Engineering
<i>Yıldız Technical University</i>	2011-2017	Mechatronics Engineering
		GPA: 3.31 · Honour Student
<i>Yıldız Technical University</i>	2012-Present	Electronics and Communications Engineering
<i>Boğaziçi University(Master)</i>	2018-Present	Physics

PUBLICATIONS

	October 2017	Assessment of Optical Detection Methods for Compact Biosensors
<i>TIPTEKNO'17 Conference</i>		This paper is a review containing the research and evaluation of optical detection methods for biosensors. Authors: Onur EFE, Tülay YILDIRIM

COMPUTER SKILLS

<i>Intermediate</i>	HTML,CSS,SASS, PYTHON, JAVA, L ^A T _E X
<i>Advanced</i>	C, C++, C#, MATLAB, Assembler (PIC16F, PIC18F, PIC24F, 8051, MSP430, ARM Cortex-M Architectures), Autocad, Solidworks, KiCad EDA, IAR Embedded Workbench, Eclipse, Visual Studio, Qt

OTHER INFORMATION

<i>Volunteer</i>	I was a teacher of science in a local project which aims to support secondary school students whom doesn't have sufficient prosperity for course expenses.
------------------	--

Communication
Skills

2010 · Oral Presentation at TIPTEKNO'17

Languages

ENGLISH · Advanced

REFERENCES

*Advisor Teacher at
Electronics
Engineering*

Prof.Dr.Tülay YILDIRIM
+90 532 654 6351 · tyildirim1@gmail.com

*Thesis Teacher at
Mechatronics
Engineering*

Yrd.Doç.Dr.Hüseyin ÜVET
+90 533 385 3023 · huseyinuvet@gmail.com

*Co-founder of
Axolotl Biosystems*

Onur Samet YILDIRIM
+90 539 585 8788 · onursyildirim@gmail.com

*Director of
Cihangir Halk
Eğitim Merkezi*

Alpay TÜRKKAN
+90 212 245 63 38

*Co-founder of
Vivosens
Biotechnology*

Gözde BÜYÜKACAROĞLU
+90 538 387 65 12 · gozde@vivo-sens.com

*Co-founder of
Medialab
Technology*

Okan HALIS
+90 555 491 1367 · okan.hls@gmail.com

*Co-founder of
Valensas
Technology
Services*

Akın İDİL
+90 212 285 0122 · akin@valensas.com

March 18, 2019