

PERSONAL INFORMATION

Bilal Tonga



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Sex Male | Date of birth 05/03/1990

WORK EXPERIENCE

2016–2017

Electronics engineer

ZBT Intercom System, Ankara (Turkey)

- Electronics design for IP based Intercom system
- PCB designs and manufacturing process
- Experience in SIP audio protocol with python
- Experience in embedded linux
- Experience in wireless audio transfer protocols

09/2013–06/2016

Software Developer and IT

Turkish Accelerator and Radiation Laboratory in Ankara (TARLA), Ankara (Turkey)

- Responsible for tarla.org.tr Web site
- Installing and maintaining GNU/Linux and Windows Servers
- Software development based on Control Systems
- Experience in EPICS Control System IOC, Device support and RS232-TCP/IP based device software development
- Personnel shift control software development
- Web based application development
- Git version control software management with gitlab web interface
- Experience in Redmine, project control software management
- Experience in Indico event management system for conferences, workshops and meetings.
- Network installation for Control System
- Experience with RS-232, RS-485, SPI and TCP/IP communication protocols
- Experience with standalone Raspberry Pi based embedded electronics

08/2013–02/2014

Software Developer

Önel Electronics, Ankara (Turkey)

- Experience in development of QR-code scanner Linux driver for in-house design Tablet
- Experience in Android Application development which can communicate with Linux drivers and Linux Signals
- Caller-ID electronics design improvement and software development

- 09/2011–06/2012 IT**
Ankara University - Institute of Social Sciences, Ankara (Turkey)
Responsible for Institute Web page and PC hardware tech support.
- 06/2010–09/2010 Intern**
Inform UPS System Electronics, Ankara (Turkey)
30 workday internship.
Experience in UPS system installation and tech support.
- 2007–2008 Intern**
TAI - Turkish Aerospace Industries, Inc., Ankara (Turkey)
8 months Higher education internship.
Experience in F16 aircraft wiring and modification department.
Experience in wiring diagram reading and cabling

EDUCATION AND TRAINING

- 2011–Present Electronics and Electrical Engineer**
Ankara University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Ankara (Turkey)
- 2010–Present Economics**
Anadolu University, Faculty of Economics, Department of Economics, Eskişehir (Turkey)
- 2008–2010 Industrial Electronics technician**
Hacettepe University Faculty of Vocational School of Higher Education, Department of Industrial Electronics, Ankara (Turkey)
- 2004–2008 Electronics Technician**
Ulus Anatolian Vocational High School (Electronics), Ankara (Turkey)

PERSONAL SKILLS

Mother tongue(s) Turkish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

- Communication skills** ■ Good communication skills gained through my experience as Educator in Student club
- Organisational / managerial skills** ■ good organizational skills gained as head of the TEMA foundation Ankara youth society, responsible for organization and promoting events

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

MS Office Applications (Word, Excel, Power Point)

Microsoft Windows Server installation and Management

GNU/Linux server installation and management

MySQL Database installation and management

Mechanics Design software: Solidworks

Electronics Design software: Proteus, Eagle, Kicad

Software development languages: C,C#, Java, Python, Go lang, Bash scripting

Driving licence

B

ADDITIONAL INFORMATION

Projects

TARLAGUARD (2017)

This project designed for TARLA (Turkish Accelerator and Radiation Laboratory in Ankara). It is designed to meet all security and personnel needs of the facility.

System Specifications;

- TCP/IP based Controller and Server communications
- Wiegand protocol RF-ID reader supported
- 8 channel reader, 8 channel door relay, 8 channel door status support for each controller
- Web based Admin and User management software
- Easy to use user interface
- Door controller and door health status tracking

Projects

PerfectLINE Wireless Intercom System (2016)

This project is designed for simulation room so that students and mentors can communicate. Mentor can see and choose all intercom devices to communicate anybody thanks to graphical user interface.

- Arm based embedded controller
- Encrypted communication based on 2.4 Ghz Wifi
- Supported up to 20 intercom devices
- Supported access points to reach wifi range
- 6 hours operating time

Projects 3d printer design and manufacture Autonomous robot arm with this 3d printer (2015-2016)

This project is supported by Ankara University Coordinatorship of scientific research projects.

3d printer has been designed and built in the first part of the project.

The second part is designing 2 robot arm capable with 62cm reach length and inverse kinematics problem solving algorithm with image processing for object recognition.

Robot arms 3d printed with our printer and worked with embedded controller.

Projects Crewerker - 3D Printer (2015-to date)

www.crewerker.com / help@crewerker.com

- 30x40x30cm high build volume
- Easy UI and easy connection thanks to Touch screen and embedded operating system
- All Mechanical drawings are designed with Solidworks.

Projects Portunes– Personnel Shift Control System (2014-2015)

<https://github.com/T-A-R-L-A/Portunes>

- Working standalone on Raspberry Pi
- It was Developed by Java and C programming languages
- MySQL database support
- Free Software, licensed with GPL V2

Projects Isimud- SCADA device (2014)

Designed for off grid area use, can be connected different devices to push/pull data.

- Embedded GNU/Linux operating System
- Run on ARM microprocessor architecture
- Developed with Python, Java, Bash script
- Web Interface developed with Flask Web Framework
- Support Serial port and TCP/IP protocols

Projects **Günebakan Record Player (2012 - to date)**

Günebakan Brand, produces unique record players designed for individuals. All players are produced as handmade and with a special design for customers' interest.

for more info:

facebook.com/gunebakanpikap