

MUSA SADIK UNAL

*Esentepe Mah. Pamuk Sk. No 3 34870
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EDUCATION

Kartal Anadolu Imam Hatip Lisesi
Public High School | Turkey

September 2014 – Present

FURTHER EDUCATION

2017 - Introduction to Data Mining from Asst. Prof. Mustafa Cem Kasapbasi

2016 - Cryptography from Asst. Prof. Mustafa Cem Kasapbasi

TECHNICAL SKILLS

Software: Windows, Linux and Raspian operating systems;

Languages & Tools: C, C++, C#, Python; Git

Embedded Systems: PIC and ARM(STM32 family) microcontrollers, Arduino, CubeMX

Electronics: Microcontrollers, Integrated Circuits, Logic Circuits, Logic

PCB Design: Eagle, Proteus

ACADEMIC PUBLICATIONS

UNAL, M.S., Çocuklar İçin Scratch Ile Arduino Programlama (Arduino Programming with Scratch For Child), ISBN: 978-605-4898-28-2, Turkey: Dikeyksen Publishing, 16 February 2018, Book.

UNAL, M.S., ERTÜRK, E., KASAPBAŞI, M. C., YAVUZ, E., ŞANVER, U., (2017), Real-time Remote Control of Robotic Hand System - TeleTouch , International Conference on Engineering Technologies, , December

EXPERIENCE & INTERNSHIPS

July-August 2017

Baykar Makine, Software Department, Turkey

- Communication protocols
- CAN communication and designing a logger
- Designed a bootloader for STM32F407 also designed an graphical user interface that can communicate with this bootloader

August 2017

Istanbul Commerce University, Turkey

- Basic data mining algorithms
- Image processing with OpenCV, focusing on feature extraction algorithms

CONFERENCES

8th International Swiss Talent Forum (5-9.02.2019) as a Turkish representative

PROJECTS & WORKS

2016 Developing And Producing A Prototypical Mobile Information System For Visually Impaired Individuals In Public Transportation

Team: *Musa Sadık Unal, Ibrahim Enes Aslan, Ersin Erturk*

2016 Developing a Suspicious Tracking Application for Security Camera

Team: *Musa Sadık Unal*

2017 Control of Robotic Hand System via Online System with Three Dimensional Hand Motion – TeleTouch

Team: *Musa Sadık Unal, Abdurrahman Unal, Ersin Erturk*

2017 Designing a Linux Driver for AX9290 Can Reader

Team: *Musa Sadık Unal*

2017 Object Recognition with SURF Algorithm

Team: *Musa Sadık Unal, Elif Nur Korkmaz, Asst. Prof. Mustafa Cem Kasapbasi*

2017 Age Prediction With KNN Algorithm

Team: *Musa Sadık Unal, Elif Nur Korkmaz, Asst. Prof. Mustafa Cem Kasapbasi*

2017 Designing and Implementing a Bootloader For STM32F4 Series Microcontrollers

Team: *Musa Sadık Unal*

2017 Designing and Implementing An Open Source Communication Protocol For Hardware Communication (CHC)

Team: *Musa Sadık Unal, Enes Sefa Cetin*

2018 Designing and Implementing a Refreshable Tactile Display That Can Move Over Z Axis

Team: *Musa Sadık Unal, Ersin Erturk*

2018 Development of Voice and Sensible Image Reading System for Visually Impaired Individuals

Team: *Musa Sadık Unal, Ersin Erturk*

HONORS & AWARDS

2018 *Sweden* – Swedish Robot Championship Robot-SM, 1st Prize

2018 *Czech Republic* - 15th Robotic Day Freestyle, Tele-Touch Jury Award

2018 *Czech Republic* - 15th Robotic Day Freestyle, PIC-TALK Jury Award

2018 *Turkey* - TUBITAK 49th High School Students Research Project Competition Programming Category – Asia Region 1st Prize

2018 *Turkey* - TUBITAK 49th High School Students Research Project Competition Programming Category - Turkey 2nd Prize,

2018 *Turkey* - Okan University Engineering Competition Mechatronics Field – 2nd Prize

- 2018** *Turkey* - Kemerburgaz University International Information Science and Applications Project Competition, 2nd Prize
- 2018** *Turkey* - MEF Education Institutions National and International Research Projects Contest - Physics Category – Special Jury Award
- 2018** *Turkey* - Uskudar University National Competence and Mentor Network Project Competition – 2nd Prize
- 2017** *Romania* -10th Edition Robochallenge, 1st Prize
- 2017** *Turkey* – Kemerburgaz University International Information Science & Applications Project Competition, 1st Prize
- 2017** *Turkey* - Cekmekoy Municipality ALIYA IZETBEGOVIC International Science Olympics Technology Category, 1st Prize
- 2017** *Turkey* - Okan University Engineering Competition Mechatronics Field – 1st Prize
- 2017** *Turkey* - TUBITAK 48th High School Students Research Project Competition Coding Categories -Turkey 2nd Prize
- 2017** *Turkey* - (TUBITAK)48th High School Students Research Projects Competition Programming Category – 1st Prize in Asia Region
- 2017** *Turkey* - Izmir Institute Of Technology Iztech Roboleague, 3rd Prize
- 2017** *Turkey* - (MEF Education Institutions) National and International Research Projects Contest- Physics Category – 3rd Prize
- 2017** *Turkey* - Marmara University Mechatronics and Innovation Days Freestyle Category – 2nd Prize
- 2017** *Turkey* Kartal'ın Yükselen Yıldızları (Special Award From Municipality)
- 2016** *Turkey* - INSPO - International Science Project Olympiad Engineering Category - 3rd Prize
- 2016** *Turkey* - Professor Dr. Aziz Sancar International Science Olympics Technology Category - Honorable Mention
- 2016** *Turkey* - TUBITAK 47th High School Students Research Project Competition Computer Category – 1st Prize in Asia Region
- 2016** *Turkey* – ONDER 2nd Science Art Culture Days Project Competition Science Category – 1st Prize
- 2016** *Turkey* - Basaksehir Living Lab Invitation Contest – 1st Prize

CLUBS & SOCIETIES

- Kartal Anatolian Imam Hatip High School Chess Club, Member
- Kartal Anatolian Imam Hatip High School Project Club, President and Technical Lead
- Science Travellers Projects Robotics Team, Team Captain
- Kartal Anatolian Imam Hatip High School Robotic Club, Founder-President-Instructor
- Kartal Anatolian Imam Hatip High School Aviation, Team Lead at Software and Electronics
- Kartal Anatolian Imam Hatip High School 3D Printing and Modeling Club, Founder - President

INTERESTS

- Algorithms
- Embedded Systems
- Grid&Parallel Computing and Algorithms
- Microprocessor Architectures
- Image Processing
- Photography
- Books

REFERENCE ON REQUEST

**Prof. M. Cem
Kasapbasi**

Asst.Prof in CS, ITICU
mckasapbasi@ticaret.edu.tr

Dr. Mehmet Suat Kay

Software Lead at Baykar
Makina

Ersin Ertürk

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