

MUSTAFA ÇAĞATAY SİPAHİOĞLU

ROBOTICIST

PERSONAL DESCRIPTION

I AM A CONFIDENT AND PASSIONATE ROBOTICIST WITH OVER 9 YEARS OF EXPERIENCE IN ROBOTICS & HIGH EXPOSURE TO ANYTHING RELATED TO AUTOMATION. I AM INHERENTLY CURIOUS AND I'M A QUICK-LEARNER, THIS PARTICULAR SET OF CHARACTERISTICS ALLOW ME TO ASK THE RIGHT QUESTIONS AND APPROACH PROBLEMS FROM DIFFERENT ANGLES.

I WOULD DEFINE MYSELF AS A MECHANICAL PERFECTIONIST WITH AN ARTIST'S SOUL. THIS DRIVES ME TO ALWAYS FIND A MORE EFFICIENT WAY OF DOING THINGS WHILE STRIVING TO UPHOLD BEAUTY. I THOROUGHLY ENJOY WORKING ON CHALLENGING PROJECTS, RESEARCHING AND APPLYING THE KNOWLEDGE THAT I LEARN. I AM RESPONSIBLE, SELF-MOTIVATED AND I BELIEVE I CAN BE A VALUABLE ADDITION TO YOUR ORGANIZATION GIVEN THE CHANCE.

TECHNICAL SKILLS

- EXTENSIVE RESEARCHING AND REPORTING
- COMPUTER AIDED DESIGN & MANUFACTURING (CATIA, SOLIDWORKS)
- ANSYS MODULES: FLUENT, CFX, THERMAL, STRUCTURAL
- MECHANICAL, THERMAL, FLOW, FLIGHT MECHANICS ANALYSES
- ARM ASSEMBLY, C / C++, HTML+CSS+JS, MATLAB & SIMULINK, PYTHON PROGRAMMING
- MACHINE LEARNING, DATA ANALYSIS WITH NEURAL NETS
- ARM, PIC OR ARDUINO BASED ROBOT DEVELOPMENT
- FREERTOS OR ROS (ROS+V-REP/GAZEBO) BASED ROBOT DEVELOPMENT
- ELECTRONIC CIRCUITRY & SIMULATION (PROTEUS & ARES/EAGLE)
- MICROSOFT OFFICE SUITE, ADOBE PHOTOSHOP, ILLUSTRATOR, PREMIERE PRO, GITHUB

EXPERIENCE

• 2021.08-2021.10 DESIGN ENGINEER INTERN - BAYKAR DEFENCE

WORKED AS A DESIGN ENGINEER FOR THE UPCOMING PROJECTS OF BAYKAR DEFENCE. DEVELOPED AND DESIGNED PARTS & ASSEMBLIES FOR ENHANCING STEALTH CAPABILITIES OF UAVS USING DIFFERENT MANUFACTURING METHODS. DID EXTENSIVE LITERATURE RESEARCH, REPORTING AND CODING. DEVELOPED AN OPTIMIZATION ENGINE FOR CALCULATING THE OPTIMAL GEOMETRY FOR THESE PARTS.

• 2021.07-2021.08 PROCESS ENGINEER INTERN - TURKISH AEROSPACE INDUSTRIES (TAI)

AIDED THE COMPANY WITH THE INSPECTION AND WORK-FLOW OF THE MANUFACTURING OPERATIONS.

• 2020.10-2021.09 SOFTWARE DEVELOPER - BURST AUTONOMOUS TEAM

BUILT A SELF-DRIVING CAR USING ROS AS PART OF THE BURST TEAM. DEVELOPED CONTROL & DECISION MAKING ALGORITHMS USED IN THE HANDLING OF SENSORY DATA.

• 2019.06-2019.07 AIESEC GE ROBOTICS INTERNSHIP IN XFAB EGYPT, CAIRO

WORKED ON THE CONCEPT DESIGN OF A SUN-TRACKING SOLAR PANEL. GAINED EXPERIENCE REGARDING THE PROFESSIONAL WORK-PLACE, TEAM-WORK AND START-UP MANAGEMENT.

• 2015-2018 PRESIDENT - PRIVATE ARI SCHOOLS ROBOTICS SOCIETY

PARTICIPATED IN, LED AND OVERSAW ALL OF THE SOCIETY'S PRODUCTIVE, EDUCATIONAL AND ORGANIZATIONAL MATTERS. LESSONS TAUGHT INCLUDE: 3D DESIGN, PCB DRAWING, PCB PRODUCTION, ARDUINO, PROTOTYPING, CODING (C).

• I ENJOY BUILDING ROBOTS, CODING BOTS & WORKING ON DESIGNS & INVENTIONS IN MY FREE TIME. YOU CAN FIND MY FULL PORTFOLIO AT: mcsipahioglu.com

ACCOMPLISHMENTS

- 2021 - TURKIYE GRADUATE SELECTION EXAM (ALES) - 9TH* PLACE FOR SCIENCE & MATHEMATICS
- 2021.11.20 - ETS TOEFL iBT - 114/120 - READING:30, LISTENING:29, SPEAKING:27, WRITING:28
- 2018 - TURKIYE NATIONAL UNIVERSITY EXAM - 69TH** PLACE FOR SCIENCE & MATHEMATICS
- 2018 - TURKIYE NATIONAL UNIVERSITY EXAM - 78TH** PLACE FOR FOREIGN LANGUAGES
- 2018 - ÇANKAYA UNIVERSITY 8TH INTER-HIGH SCHOOL MATH CONTEST - 2ND PLACE
- 2018,2017,2016,2015 - INTERNATIONAL METU ROBOTICS DAYS - PARTICIPATION
- 2017 - BALTIC SEA PHILOSOPHY ESSAY EVENT 2017 - HONORARY MENTION
- 2017,2015 - MINISTRY OF EDUCATION INTERNATIONAL ROBOT COMPETITION - PARTICIPATION
- 2016 - PRIVATE ARI SCHOOLS MODEL UNITED NATIONS - PARTICIPATION
- 2014 - PRIVATE ARI SCHOOLS 6TH MATH OLYMPIAD - GOLD MEDAL
- 2014 - PROJECT SCHOOL FOR THE MATHEMATICALLY GIFTED (MÜYEPO)

*AMONG OVER 300,000 PARTICIPANTS.

**AMONG OVER 2,000,000 PARTICIPANTS.

CONTACT

MOBILE NUMBER: +393290813828

+905522591808

E-MAIL: mustafacagataysipahioglu@gmail.com

WEBSITE: mcsipahioglu.com

SOCIAL: linkedin.com/in/m-cagatay-sipahioglu/

LANGUAGES

TURKISH ● ● ● ● ●

ENGLISH ● ● ● ● ●

SPANISH ● ● ● ○ ○

ITALIAN ● ● ○ ○ ○

EDUCATION

2022-CURRENT

M.Sc. POLITECNICO DI MILANO

AUTOMATION & CONTROL ENGINEERING

MILANO, ITALY

2018-2022

B.Sc. BOĞAZİÇİ UNIVERSITY

MECHANICAL ENGINEERING

İSTANBUL, TURKIYE

GRADUATION GPA: 3.80/4.00

(3RD IN MY CLASS)

2014-2018

HIGH SCHOOL PRIVATE ARI SCHOOLS

SCIENCE HIGH SCHOOL

ANKARA, TURKIYE

(FULL SCHOLARSHIP)

GRADUATION GPA: 99.23/100.00

RESEARCH INTERESTS

- ROBOTICS & AUTOMATION

- MULTI-AGENT CONTROL

- DECENTRALIZED CONTROL

- DEFENCE INDUSTRY

- CRYPTOGRAPHY

HOBBIES

- BOT DEVELOPMENT

- INVENTING & REDESIGNING

- TRAVELLING

- WRITING (USUALLY PHILOSOPHICAL ESSAYS)

- HORSE RIDING & TRADITIONAL TURKISH ARCHERY

- GASTRONOMY

- FILM ENTHUSIAST

PERSONALITY TRAITS

- ORIGINAL

- DETAIL-ORIENTED

- LEADER

- SELF-TEACHING, SELF-MOTIVATED

- QUICK LEARNER & HARD WORKER

- CRITICAL THINKER

- CREATIVE & CURIOUS

- EXCELLENT VERBAL-WRITTEN COMMUNICATOR

- TEAM-PLAYER

- RESPONSIBLE

- PRACTICAL