

Barış Ekim

Elite Side B2-76
Kaynarca Mahallesi, Samyeli Sokak
34890 Pendik, Istanbul, Turkey

(+90)539-384-2926
(+1)747-333-0347

baris.ekim@uwc-usa.org

Profile

High school student, aspiring researcher, entrepreneur, and software developer aiming to mature as an individual beneficial to society by pursuing higher education and academic merit in science and technology, and aid in humanity's progress toward growth and development by offering critical thinking, creativity and innovation.

Experience

Director of Content Development, Slick Magazine, Madison, WI – 2016–Present

Slick Magazine is an independent, ad-free news and opinion online magazine created to offer a platform for open-minded and opinionated teens to discuss current affairs, culture, identity, entrepreneurship, and other topics they care about.

- Full-stack web development, implementation and optimization
- Managing web traffic and analyzing alterations
- Executing ideas in offline/online and paid/non-paid major communications channels
- Overseeing concept development in various communications channels
- Developing ideas and messages to communicate and persuade at points of contact

Research Scholar, Istanbul Technical University, Istanbul, Turkey – 2015–Present

Working on thermal modeling of compacted graphite iron (CGI) drilling and waste textile fiber reinforced polymer composites at the Department of Materials Engineering, Graduate School of Science, Engineering, and Technology.

- Evaluating research techniques and recommend improvements to ensure productivity
- Designing and performing required experiments
- Conducting literature reviews and consulting with faculty as needed
- Producing complete documentation of research
- Presenting research results in meetings and seminars

Founder and Executive Director, Wire & Pebbles Co., Istanbul, Turkey – 2015–Present

Wire & Pebbles Co. offers a variety of skills and tools to local business owners in rural areas to introduce and sustain their businesses in large markets, as well as consulting owners on the best ways to manage and operate their business.

- Facilitating meetings with clients to develop an understanding of their business
- Observing the business environment to understand the landscape of the client
- Implementing solutions and ensuring the client receives the necessary assistance
- Liaising with the client to keep track of progress and make relevant decisions
- Using data analytics tools to discover trends and patterns in marketing

Founder and Executive Director, SIGMA Turkey, Istanbul, Turkey – 2015–Present

SIGMA Turkey is a student-centered initiative through which students are able to match with mentors (graduate students, PhDs, and professors) to initiate ideas and pursue individual projects. SIGMA Turkey provides mentorship for middle and high schoolers in their pursuit of academic expertise and skill building, and guidance for parents to support gifted children.

- Collaborating with the board to refine and implement the mission statement
- Ensuring that the staff and priorities are aligned with SIGMA Turkey's core mission
- Ensuring the development and management of a professional and tightly-knit network
- Cultivating a strong and transparent working relationship with mentors and mentees
- Rationalizing the delivery of programs through new mentor-mentee connections

Visiting Researcher, Massachusetts Institute of Technology (MIT), Cambridge, MA – 2015
Worked on protein structure database search via entropy-based hierarchical clustering as a visiting member of Berger Lab at the Computer Science and Artificial Intelligence Laboratory (CSAIL).

- Conducted literature reviews
- Offered a novel and functional approach to the problem at hand
- Successfully implemented the solution computationally
- Performed and analyzed benchmark classifications
- Provided ready access to all experimental data for the supervisor

Research Assistant, Turkish Air Force Academy, Istanbul, Turkey – 2013–2014
Conducted research on the integration of hydrogen fuel cells to unmanned aerial vehicles at the Department of Aeronautics and Aerospace Engineering.

- Conducted independent investigations in the planning of experimental procedures
- Created and maintained accurate and timely records of test results and protocol design
- Assisted in the publication of research findings
- Participated in meetings with the Principal Investigator (PI) to evaluate the validity of data
- Designed experimental procedures/protocols and statistical analysis of data

Translator, Khan Academy, Istanbul, Turkey – 2012–2013
Translated visual and supplementary material from English to Turkish.

- Read through original material and rewrote it in the target language
- Used reference books to find the equivalents for terminology and words used
- Researched legal, technical and scientific phraseology to find the correct translation
- Proofread and edited final translated versions
- Followed translation-quality standards to ensure ethical obligations to the customer

Education
Armand Hammer United World College of the American West, Montezuma, NM – High School, 2014–Present, IB: 40/42 - 47/49 (Predicted)
Pursuing an International Baccalaureate diploma and an additional certificate in Physics

Istanbul University, Istanbul, Turkey – Non-Degree, 2009–2015, 4.0/4.0
Took molecular biology and genetics, genomics, and atomic physics courses

TEV Inanc Turkes High School for Gifted Students, Kocaeli, Turkey – High School, 2011–2014, 5.0/5.0

Skills
Research, Data Analysis, Data Mining, Web Design, Algorithm Optimization, Software Engineering, Startup Development, Nonprofit Technology, Strategic Planning, Peer Mentoring, Integrated Marketing, Youth Entrepreneurship, Gamification, R, C++, PHP, Go

Honors
Shelby Davis International Scholar, United World Colleges (UWC)
Research Science Institute (RSI) International Scholar, Center for Excellence in Education
Youth Science Program Scholar, Istanbul University
Intel Science Talent Search Semifinalist, Society for Science & the Public

Test Scores
ACT: 36 (English: 36, Mathematics: 36, Reading: 35, Science: 36)
SAT II - Molecular Biology: 790
SAT II - Mathematics Level 2: 800

References
References are available on request.