

February 3, 2021

Dear Sir or Madam:

I am writing this letter as an expression of my interest in the summer internship program of École Polytechnique Fédérale de Lausanne(EPFL), Summer@EPFL.

My name is Alperen Keles, and I'm a third-year undergraduate student from The Department of Computer Engineering of Middle East Technical University, Turkey. Let me begin with a brief introduction of myself. I have been interested in many activities over the years, such as writing, drawing, chess, sports, math, and all kinds of different pursuits as a part of my search as to what makes me feel fulfilled. At some point, I realized that I could achieve satisfaction via solving problems. These problems could be math problems, or social issues I encountered in real life, let alone answering, just thinking about a challenge would give me a tremendous amount of joy.

It wasn't until I participated in the Security Reading Group of our department last year that I realized a new level of challenges was in front of me; to solve the unsolved problems. Research is about the edges of science, thinking of the unthought, solving the unsolved, meeting the hardest challenges in our lives in a way that perhaps no person in history has ever met. Once I realized how exciting research was for me, I started following a path in that direction.

I have participated in a research project done in my department on Network Security, where we later published an article regarding the project. I have worked on Network Intrusion Detection Systems with a friend of mine from our department guided by our faculty member. In summer, I have had the chance to do my internship at Emproof, where I worked on the translation validation of equivalent programs via automated theorem solvers. When I returned in the fall, we have started a new project, PVL(Protocol Verification Language), a domain-specific programming language for automated verification of network protocol implementations.

I feel alive when I work in the corners, niche areas of computer science. I'll continue to study long as I have the opportunities. I would like to achieve my best self as an intern at Summer@EPFL.

Thank you for your time and consideration.

Yours Sincerely,

Alperen Keles