

# Efe Ayhan

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**Languages:** English, Turkish

## EDUCATION

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**University of Pennsylvania**, Philadelphia, PA **2017-Present**  
Computer and Information Science, Economics – School of Engineering and Applied Science  
Dean's List Honors 2017-2018 **GPA: 3.86/4.00**

**The Koç School**, Istanbul, Turkey **2012-2016**  
Enrolled in the International Baccalaureate Program (Science/Math Track) and Turkish High School Program  
Full Merit Scholarship – 4 years **IB GPA: 40/45**

## EXPERIENCE/INTERNSHIPS

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**UROP Program at RWTH Aachen** – *Research Intern on Machine Vision* **2018 Summer**  
*Joined the OnLoom Project, which aims to detect textile weave defects using machine vision technology*

- Optimized performance and increased speed by implementing parallel computing using OpenCV and CUDA technologies in C++ and Visual Studio 10
- Extended applications by implementing a working solution in MATLAB for detecting thread tension errors in textile weaves and updated the image database with weaves with such defects
- Carried out FMEA analysis to evaluate the errors for industry applications

**University of Pennsylvania** – *Undergraduate Research Assistant* **2018 August-Present**  
*Penn Institute for Biomedical Informatics – Perelman School of Medicine*

- Studying and implementing multiple machine learning methods to reproduce Penn AI results
- Improved the download script functionality by designing the output machine learning script

**Computer Science Department at University of Pennsylvania** – *Teaching Assistant* **2018 August-Present**  
*TA for Introduction to Computer Programming (CIS 110) Course*

- Holding office hours for undergraduate students
- Writing questions for exams, grading exams and homework for about 300 students

**The Daily Pennsylvanian (U of Penn)** – *Web Developer* **2017-Present**

- Developing data visualization tools to be used by DP staff and developing parts of the website
- Analyzed data for news articles using Python, designed images to be used with the data

**Penn Aerospace Club (U of Penn)** – *High Altitude Balloon Team – Software Developer* **2017-Present**

- Wrote code in C++ and JS to design the aviation control system, performed data analysis using Python

## LEADERSHIP/ACTIVITIES

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**Assembly of International Students (U of Penn)** – *Vice Chair of Alumni & Employment* **2017-Present**

- Lead the alumni and employment committee, responsible for overseeing and organizing all events
- Organizing workshops and career trips to overcome international students' difficulty in finding internships/jobs in the US and to inform the students of the international employment process

**International Student Advisory Board (U of Penn)** – *Finance and Accessibility* **2017-Present**

- Working with University Administrators, graduate and undergraduate students to create a fund for international students and involved in the redesigning of the Penn Global webpage

**Other:** International Ambassador for RWTH Aachen, Graphics Designer at The Daily Pennsylvanian

## TECHNICAL SKILLS

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Proficient in: Java, Python, HTML, CSS, Javascript, Matlab, C++, OCaml, SolidWorks, SQL, Excel, Word, LaTeX