

# GÖKSU GÜVENDİREN

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## EDUCATION

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**Middle East Technical University, Turkey**  
B.S. in Computer Science  
Overall GPA: 3.36 / 4.00

*Sept 2012 - June 2017*

## EXPERIENCE

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**Middle East Technical University**  
*Teaching Assistant*

Sep 2016 - June 2017  
*Ankara, Turkey*

- Worked as a student teaching assistant for 4 departmental courses. Prepared and evaluated homeworks for each of them.

**Warwick Manufacturing Group**  
*Software Engineering Intern*

July 2016 - Aug 2016  
*Coventry, UK*

- Worked on the implementation of a High Dynamic Range (HDR) video deghosting algorithm.
- Worked on the world's first web based HDR image viewer. We are still working on this project.

**TaleWorlds Entertainment**  
*Software Engineering Intern*

June 2015 - July 2015  
*Ankara, Turkey*

- Worked on the game-play side of the game Mount&Blade II : Bannerlord.
- Implemented new features, tested and fixed bugs.

## LANGUAGES & TECHNOLOGIES

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C++, Matlab, Python  
OpenCV, OpenGL, Git, CMake

## PROJECTS

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### E2EHDR

July 2016 - Aug 2016

- E2EHDR is my senior project in which we propose a solution to overcome the cost of acquiring and displaying High Dynamic Range video. We use two regular cameras in different exposure settings to acquire video frames. Then, we match these frames and create HDR images in real time (around 25 fps) using GLSL.  
Since daily display devices lack the ability to display more than 8 bits per channel, we built a custom system which is capable of doing so.
- This project won 4th place among 27 projects in departmental graduation projects contest.

### OpenHDR

*Warwick Manufacturing Group*

July 2016 - Present  
*viewer.openhdr.org*

- OpenHDR is the world's first online HDR image viewer. We are using WebGL to render the HDR image on client side, typescript for scripting, C++ for format handling and Emscripten to compile C++ to javascript.

## HONORS

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During 8 semesters of my Bachelor's Degree, I was awarded 4 Honor and 3 High Honor degrees.