

ANIL CELIK MARAL

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Education

Technical University of Munich

Master of Science - MS, Informatics: Games Engineering

April 2022 – March 2025

2.065 / 5

University of California, Santa Cruz

Bachelor of Science - BS, Robotics Engineering

June 2015 – June 2019

1.3 / 5

Experience

C++ Developer

Dassault Systemes

- Working in the 3D Preparation Operators team that develops the xOptimizePro / DataPrep operations for the **3DEXPERIENCE** app using C++.

April 2024 – Present

Munich, Germany - Hybrid

Game Developer

Peanut Entertainment

- Developing games using **Unity**, **Unreal Engine** and **Blender**.

May 2022 – Jan 2024

Ankara, Turkey - Remote

Robotics Engineer

ERISIM A.S.

- Drew and designed the **P & ID / flow diagrams** for **gypsum based construction material production plants** and wrote programs for the **PLC automation systems** used in these plants.

Jan 2020 – Apr 2022

Ankara, Turkey - On Site

Embedded Systems Engineer Intern

Archer Components

- Developed automation solutions using **IoT** by utilizing **AWS**, **Arduino**, **ZigBee**, **C** and various other microcontrollers and programming languages.

Sep 2019 – Dec 2019

San Francisco Bay Area - On Site

Undergraduate Researcher

University of California, Santa Cruz

- Modeled tensegrity robots** and sketched them in **AutoCAD Inventor** and also did **stress analysis/simulation** of the tensegrity robots using **NASA Tensegrity Robotics Toolkit (NTRT)**. Afterwards, built the prototypes by **3D printing/prototyping** for testing.

Nov 2015 - Jul 2017

Santa Cruz, California - On Site

Projects

Differentiable Finite Volume Method

- In my master's thesis, I worked on **computational fluid dynamics (CFD)** simulations using the **finite volume method (FVM)**. I developed and coded the **finite volume method (FVM)** solutions for Φ_{Flow} , a differentiable PDE solving framework for machine learning, and then published my results.

Chaos Coaster Video Game

- Developed an 3D FPS in **Unity**. Models were designed in **Blender**. The enemies were trained using machine learning using **Unity's ML-Agents**.

Stellaris Mod - The Veiled Cluster

- Developed a mod to play in an extra-galactic cluster. The mod comes with story driven events and an additional species trait.

Implementation of the KinectFusion 2011 by Richard A. Newcombe et al Research Paper

- Implemented the 2011 research paper titled KinectFusion: Real-Time Dense Surface Mapping and Tracking by Richard A. Newcombe et al. using **C++**, **OpenCV** and **CUDA**. Additionally, utilized **Eigen3** and **FreeImage 3 C++** libraries.

Skills

Unity, Unreal Engine, Blender, C++, C#, C, Python, Java, MIPS Assembly, Verilog, PLC Ladder Logic, Matlab, AutoCAD, Autodesk Inventor, SolidWorks, Robot Operating System (ROS), Gazebo ROS, OpenCV, CUDA

Languages

English: Native or Bilingual Proficiency

Turkish: Native or Bilingual Proficiency

German: Elementary proficiency

Organizations

Tau Beta Pi, The Engineering Honor Society

Member

May 2018 - Present