Anil Celik Maral

+49 152 24885420 anilcelikmaral@gmail.com anilcelikmaral.com anil-celik-maral Popichi

Education

Technical University of Munich **April 2022 – Present**
Master of Science - MS, Informatics: Games Engineering *2.284 / 5*

University of California, Santa Cruz **June 2015 – June 2019**
Bachelor of Science - BS, Robotics Engineering *1.3 / 5*

Experience

Game Developer **May 2022 – Jan 2024**
Peanut Entertainment *Ankara, Turkey - Remote*

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

Robotics Engineer **Jan 2020 – Apr 2022**
ERISIM A.S. *Ankara, Turkey - On Site*

- 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.

Embedded Systems Engineer Intern **Sep 2019 – Dec 2019**
Archer Components *San Francisco Bay Area - On Site*

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

Undergraduate Researcher **Nov 2015 - Jul 2017**
University of California, Santa Cruz *Santa Cruz, California - On Site*

- **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.

Projects

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**.

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

- Developed a card based, continous timed 2D action RPG in **Unity**.

The Custodian Video Game

- Developed a card based, continous timed 2D action RPG in **Unity**.

DeepMap Autonomous Mobile Robot Project

- Volunteered in DeepMap's autonomous mobile robot project.
- Coded in **C++** and **Python** to interact with DeepMap's maps and sensor rig, that consists of a **GPS**, a **LIDAR**, an **IMU unit** and two **stereo cameras**, to autonomously drive the DeepMap autonomous mobile robot.
- Integrated ROS, DeepMap's API and our own code, to have the ability to navigate on roads and simulated our robot in Gazebo ROS before deployment.
- **Designed** the robot using **SolidWorks** and doing **statics** and **kinematics** calculations.

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