


# Robear Selwans

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## Work Experience:

### Graphics Programmer at The Forge Interactive Inc.

Nov. 2021 - Sep. 2024

- Debugged and Integrated features into TheForge rendering framework
  - Was part of the team consulting BigBoxVR, using Unity for VR development
    - Implemented features to improve UGC performance for Population:One's sandbox mode.
    - Implemented multiple rendering features to improve visual fidelity without sacrificing performance on the Meta Quest 2 and 3 VR headsets.
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## Education:

### Bachelor's in Computer Engineering and Software Systems

Ain Shams University

Oct. 2016 - Jul. 2021

Egypt

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## Projects:

### evol: A modular game engine

- ❖ Led the team throughout the engine's graduation project phase.
- ❖ Built the plugin framework of the engine as well as all the non-rendering modules.
- ❖ Helped in the implementation and debugging of the renderer module, and recently started rewriting it to have better usability.
- ❖ Continuing to work on it as a hobby project, rewriting modules to increase stability.

### ImprovGFX: An offline renderer (gone on-device)

- ❖ Led the team throughout the entire project.
- ❖ Built the renderer and added OpenCL acceleration to the renderer.
- ❖ Created an accessible API for my teammates

### CPU-RT: A PBR CPU Raytracer

- ❖ Basic ray-tracer implementation with glTF2.0 format support and PBR materials.