(512) 949-7235 <u>hello@tessapower.xyz</u> Round Rock, Texas 78681 $\frac{github.com/tessapower}{linkedin.com/in/tessa-power}\\ www.tessapower.xyz$

EDUCATION

Software Engineer

Bachelor of Science, Computer Science Major

Victoria University of Wellington, New Zealand (July 2022 — June 2024) Massey University, New Zealand (July 2020 — June 2022)

Bachelor of Science, Mechatronics Major

Baden-Württemberg State University, Germany (2017 — 2018)

PROFESSIONAL EXPERIENCE

Software Engineer I

Shuttlerock Limited (May 2021 — Jan 2022)

Remote member on a team of 10 full-stack web developers. Improved and evolved in-house software used to collaborate with clients on projects.

Developer Intern

Tatou Limited (Jun 2020 — Dec 2020)

Early-stage startup developing AgTech tracking software. Revitalized Ruby-on-Rails and React test suites, implemented UI testing enhancements, and authored user documentation.

Product Associate

YR Live Limited (Oct 2019 — Mar 2020)

Mature global tech startup building customized software. Developed product roadmap, refined core products, introduced Agile/Scrum processes.

PROJECTS

3D Editable Terrain Generation

www.github.com/tessapower/3d-terrain

3D terrain simulation built with C++, GLSL, OpenGL and ImGui. Users move around a procedurally generated scene of trees, clouds, and terrain, and edit the terrain mesh in real-time using the mouse. To keep the program performant, the level of detail is adjusted through mesh simplification using voxellification.

DX11 Rendering Engine

www.github.com/tessapower/DXEngine

Hardware-accelerated rendering engine built on DirectX 11 and Win32 to support custom shader development. Developed with C and C++.

2D Game Engine

www.github.com/tessapower/TEngine

Based on ECS architecture, with support for rendering, audio, basic 2D physics, and collision-overlap detection. Created on own initiative to support building Java games for a game development course at Massey University.

SKILLS

- Programming Languages: C, C++, GLSL, Java, Python, JavaScript
- Tools: Visual Studio, JetBrains IDEs, Git, GitHub, Jira, Slack, Trello
- Frameworks/Libraries: Win32, DX11, OpenGL, OpenCV, GTest, UML
- Languages: English (native), German (professional level)
- Certifications: Certified Scrum Product Owner (Scrum Alliance Inc.), ISTQB Foundation Level Tester (International Software Testing Qualifications Board)