Sigmond Kukla

Entrepreneur, Tech Tinkerer, and Computer Engineering student at Clarkson University

- Pittsburgh, PA
- (412) 287-0463
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- https://sigmondkukla.dev

Skills

Python
Programming language

Backend, Machine Vision, SBC

Virtual Reality Game Development

Unity, C#, Blender, Meta ecosystem

CAD/CAM

Fusion, Inventor, 3D printing, CNC, OnShape

Embedded systems

FPGA, Verilog, ESP32, Assembly

Server, Network, and IT

Docker, Proxmox, VLAN, Reverse Proxy

Vue.js

Frontend, Web

Leadership

Mt. Lebanon High School Rifle Team
Team Captain
2022 - 2024

Coding Club
President and co-founder
2022 - 2024

Experience

PicoPlanet Developing   Nov 2017 - Present
Small Business Owner
- https://picoplanetdev.tk
  - Self-taught Virtual Reality game developer
  - Published two paid games on the Meta Quest platform + a third in development - see AssemBLOCKS below

Simcoach Games   June 2023 - July 2023
Summer Apprentice   Pittsburgh, PA
- Worked in small teams on two self-directed transformational games aimed at children with autism/other neurodivergent disorders
- Built—and helped peers to build—game development skills including Unity, C#, Maya, and Blender

Absolute Value Tutoring   May 2023 - Present
Curriculum Designer and Teacher
- Designed and taught multiple Python programming courses for elementary and middle school students
- Designed and will teach an introduction to Arduino programming course for middle school students this summer

Education

Clarkson University   May 2028
Computer Engineering   Bachelor of Science

Mount Lebanon High School   June 2024
5.2 GPA
- Took H. Chemistry, AP Chemistry (5), H. Algebra 2, and H. Applied Engineering accelerated in middle school
- 9 AP classes + self studied AP Computer Science A
- 5 on both AP Physics C exams by 11th grade and 5 on AP BC Calculus 10th grade
- 3 Project-based Independent Study courses in senior year after finishing available science curriculum

Projects

Daily Display   Fall - Winter 2023
Calendar and pill dispenser for people living with Alzheimer's disease
- https://sigmondkukla.dev/daily-display

AssemBLOCKS   Winter - Spring 2024
Educational VR game teaching assembly with a simulated 6502 microprocessor

Target Analysis   May 2021 - Present
Open-source rifle target scoring software
- https://github.com/PicoPlanetDev/Target-Analysis
  - In use at high school WPIAL matches
  - Work in progress: digital firing point system based on this

Volunteering

Stratasys Mojo Conversion   Spring 2024
Retrofit of Tech Ed department's obsolete 3D printers, eliminating e-waste while reducing operating costs by approximately 7x
- https://sigmondkukla.dev/stratasys-mojo-conversion

Profiles

in Sigmond Kukla	⊙ PicoPlanetDev	▶ picoplanetdev
LinkedIn	GitHub	YouTube