

Alex Nickl
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anickl.github.io

SUMMARY OF QUALIFICATIONS AND WORK EXPERIENCE

Motivated and energetic professional with unique combination of academic and practical application skills that enable both task-oriented and strategic-leaning initiatives. Seeking employment to provide value to advance company's interests, mission, and value while finding an opportunity to apply my expertise and experience in a meaningful environment. Included herein is a link to a portfolio including a sampling of my work.

Veritas Music & Learning Center

2018 – Present

Private Tutoring

- Math, Sciences, Office
- Worked to provide assistance to pupils in a wide range of topics
- Learned students' coursework as quickly as possible if I've never studied the material before

POINT

9/21-2023

Game Developer

Urbana-Champaign, IL

- Developer of educational tools to teach Einstein's theory of gravity to middle and high school students in VR.
- One of first developers, helped build tools and practices to provide future-proofing
<https://icasu.illinois.edu/outreach/point-vr>
- Concentration of work on 3d modeling and shading in C# programming language
- Use of the unity game engine in a team setting to provide insights and new experiences for users.

UIUC Physics Department - PER, Selvin Lab, Dahmen Lab

6/21-5/22

Research Assistant

Urbana-Champaign, IL

- Co-Author of research paper on exam retakes
- Creation of tools to detect bioluminescence
- Interpretation of Kepler star data

UIUC Physics Department

8/20-12/20

Teaching assistant

Urbana-Champaign, IL

- Instructed 2 lab sessions alongside office hours for ~60 students
- Gave lessons and provided insight to students in electricity and magnetism

SKILLS

Python; HTML/CSS; JS; Java; C++; CAD; 3d modeling; 3d shaders, WebGL; differential calculus; linear algebra; Microsoft Office Suite; blender; numerical analysis

SHOWCASE OF WORK AT [ANICKL.GITHUB.IO](https://anickl.github.io)

- Collection of pieces and projects created on my own
- Personal study of random noise and computer algorithms in imaging
- 100k+ impressions on creations

EDUCATION

University of Illinois - Urbana Champaign (BS, Engineering Physics)

8/18-5/22

- Computation Physics concentration, Minor in Mathematics
- German: CEFR B1 level