# M. Randall McNeil

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North Wilkesboro, NC

Instructor

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## EDUCATION

**Master of Science, Computer Science**, *Appalachian State University* — Expected May 2024
**Bachelor of Science, Computer Science**, *Appalachian Statue University* — December 2021
**Associate in Applied Science, Simulation and Game Development**, *Wilkes Community College* — May 2015

## EXPERIENCE

**Adjunct Professor - Simulation and Game Development** — August 2015 — December 2021
*Wilkes Community College* — *North Wilkesboro, NC*

- Instructed:

  - SGD-114    3D Modeling
  - SGD-125    Artificial Intelligence
  - SGD-162    3D Animation
  - SGD-214    3D Modeling 2
  - SGD-237    Rigging 3D Models
- Assisted:

  - SGD-289    Capstone

**Internship - Game Development** — June 2021 — August 2021
*Dark Glass Studios* — *North Wilkesboro, NC*

- Designed and implemented a collectible creator tool for project collaborators.
- Programmed player and enemy action for turn-based combat and end of battle reward handler.
- Expanded combat mechanics with health bars, attack values, and connected animations.

## PROJECTS

**Digit Dasher**
*Personal Project*

- Conceptualized and created an infinite runner game for Android mobile devices.
- Utilized Unity 3D, C#, and Adobe Photoshop as integral tools to bring the project to fruition.
- Published to the Google Play Store in the spring of 2019.

**Dutch Blitz**
*Undergraduate Capstone Project*

- Co-created a single player digital twin for the physical card game Dutch Blitz.
- Lead the development of the core mechanics and rules within the game as well as bot actions and variable difficulty levels.

**Mash Trainer**
*Personal Learning Project*

- Developed rapid button press training tool in Unity 3D for the purpose of learning Github creation and project version control.

## SKILLS

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| **Languages** | C#, C, C++, Java, Haskell, Bash, Assembly, R, SQL |
| **Game Engines** | Unity, Unreal, Source, RPG Maker |
| **Modeling/Animation** | Maya, 3DS Max, Blender, After Effects |
| **Applications** | Visual Studio, Vi/Vim, Eclipse, Git, MySQL |
| **Web Development** | HTML, CSS, JavaScript, PHP, Apache |