

# Landon Ellis

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## EDUCATION

BS Computer Science, GPA: 3.64

*Purdue University, West Lafayette, IN*

**Graduation Date:**  
**December 2020**

COURSES: Data Structures & Algorithms, Analysis of Algorithms, Computer Graphics, Operating Systems, Computer Architecture, Computer Networks, Artificial Intelligence, Physics Mechanics

## SKILLS

*Programming Languages*

C++, C, C#, Java, SQL, Python, JavaScript, SQL, PHP, CSS, HTML

*Tools*

Visual Studio, Eclipse, Android Studio, OpenGL, Unity, SDL

## PROJECTS

**Memorph** C++, *Windows*

<https://github.com/landone/Memorph>

- DLL which injects itself into a process to covertly run functions and alter memory.
- DirectX context of process window is hijacked for drawing visuals.
- Simple interface used for designing multiple hacks.

**Drone Ranger** *Unity, C#*

<http://purduesiggd.github.io/projects/droneranger>

- Worked with a team of students to develop a platformer RPG on the Unity engine.
- Made design decisions concerning gameplay and visuals.
- Programmed many functionalities including player controls and user interface.

**MC++** *OpenGL, SDL, C++*

<https://github.com/landone/MCPlusPlus>

- A recreation of Minecraft in a custom C++ OpenGL game engine.
- Efficient block culling to avoid excessive GPU draw calls.
- Collision detection for a more convincing physics simulation.

**Area 5188 Robotics** *Java, Arduino*

<http://area5188classifiedrobotics.com>

- Lead Java programmer on FIRST robotics team.
- Motor control for smooth and accurate robot movement using gyroscopes and encoders.
- Vision-tracking based movement for adaptable adjustments.

## AWARDS

**Dean's List & Semester Honors** *January 2018 – Present*

Purdue University

Recognition for achieving 3.5 GPA or higher both cumulatively and for the semester.