Michael Sayan
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Dear To Whom It May Concern,

I am writing to convey my interest in the Tools Programmer position at Psyonix. I am currently a student, graduating in May 2016 with a B.S. degree in Computer Science from Stony Brook University, NY. I felt determined to apply after seeing the job opening posted on the Psyonix careers website, as the prospect of working for an innovative and creative company excites me.

During the Spring 2015 semester, I enrolled in the Game Programming course. The course taught the fundamentals of game programming, such as the phases of collision detection, path-finding algorithms, graphics rendering, applications of physics in games, and game engine architecture. The course was taught using C++, and teams of three members were required to create an original project.

My team's project *Dr. Bill's Jewel Heist* is a 2D platform game. Players use a jetpack to traverse through vertical levels, avoiding the sight of guards and lasers, while collecting jewels. My role on the team was content generation and tools programming. I integrated Box2D physics engine, LUA scripting, as well as SFML Graphics and Audio into the game engine. I also created a level editor and importer, implemented debug options, controller support, and handled all memory management. I enjoyed seeing my how work contributed to a game's creation and watching its development flourish with the use of my tools. Additionally, *Dr. Bill's Jewel Heist* was entered into the Stony Brook Game Competition and placed 4th out of 50 entries.

Other relevant courses I have taken include Analysis of Algorithms, Systems Level-Programming, and Operating Systems. The algorithms course sharpened my ability to create and identify efficient algorithms, which benefits the performance of games. Programming for lower level systems and implementing features in an operating system taught me how crucial resource management is in efficient computational performance.

Please feel free to contact me at 631-260-9182 or at Sayan.Michael@gmail.com. I am also available and willing to travel for an interview. I look forward to speaking with you soon.

Sincerely,

Michael Sayan