

# Brandon Eng

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## Education

California Polytechnic State University, San Luis Obispo  
B.S. Computer Engineering

September 2012 – December 2016

## Skills

- Programming Languages – Java, C, C#, C++
- Tools – Eclipse, Unity, Greenfoot, Inform7, OpenGL

## Related Coursework

Systems Programming	Electric Circuit Analysis I, II
Introduction to Computer Security	Introduction to Computer Graphics
Computer Architecture	Design and Analysis of Algorithms
Introduction to Operating Systems	Interactive Entertainment Engineering

## Projects

RGB Painting Simulation – C#, Unity	December 2016
<ul style="list-style-type: none"><li>➤ Used RGB color system to create a painting simulation</li><li>➤ Implemented RenderTexture and Texture2D to create the painting</li></ul>	
Bottle Brigade – Mechanical Design Lead – AutoCAD	March 2016
<ul style="list-style-type: none"><li>➤ Created a baby bottle sleeve to track the usage of the bottle</li><li>➤ Designed the encapsulation that houses the hardware</li></ul>	
Writer's Block – Java, Greenfoot – Global Game Jam	January 2016
<ul style="list-style-type: none"><li>➤ Built over 48-hour hackathon with a 3-person team</li><li>➤ Strategize against an opponent using various Shakespeare characters</li><li>➤ Used procedural generation to develop the board</li></ul>	
Gravitas Cecidisse – Inform 7	January 2016
<ul style="list-style-type: none"><li>➤ Escape the various rooms by decoding the various ciphers in this text adventure</li><li>➤ Locks are encoded using Caesar, Atbash, A1Z26, and Vigenere Cipher</li></ul>	
Linear Sim – C	March 2015
<ul style="list-style-type: none"><li>➤ Simulates heat transmission and spread from one or two sources over a set number of cells</li><li>➤ Used piping and forks to distribute and retrieve data</li></ul>	
LZW Decompression – C	February 2015
<ul style="list-style-type: none"><li>➤ Decompresses LZW compressed files and presents output</li><li>➤ Used bit manipulation to convert compressed data into ASCII</li></ul>	
Carrot Hunter – Java, Processing	May 2013
<ul style="list-style-type: none"><li>➤ Traverse a hedge maze to collect carrots, while avoiding rabbits along the way</li><li>➤ Used OpenGL to create the player, rabbits, and treasures</li></ul>	

## Work Experience

Cashier at <i>Cathay Kitchen</i> , San Mateo	2009 – 2015
<ul style="list-style-type: none"><li>➤ Took on other roles in the restaurant such as busser and waiter due to shortage of staff</li><li>➤ Made deliveries to neighboring establishments</li></ul>	

## Volunteer

*Friends of the San Francisco Public Library*