

Nigel Bess

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nigelbess.com

Education

University of California, Santa Barbara

Graduated 2019

- Bachelor of Science in Mechanical Engineering
- GPA: 3.47

Technical Skills

Programming Languages: C#, C++, Python, Java, MATLAB, HLSL, ShaderLab, Javascript, PHP

Software: Unity, Solidworks, Blender, Abaqus, Excell

Other: SQL, Git, UML, MVVM, Windows/UNIX Commands, HTML, CSS

Engineering Experience

Software Engineer: FLIR Systems, Inc

November 2019 - Present

- Architected, created and maintained software systems for controlling production machinery in a factory
- Delivered a wide variety of software projects ranging from hardware interfaces to internal analytics tools
- Designed user interfaces and communicated with customers to streamline the user experience
- Designed database schema

Lead Engineer: UCSB Neuroscience Research Institute

June 2019 - November 2019

- Led a team of undergraduate engineers in the design of an automated training system for mice

Research Assistant: UCSB Neuroscience Research Institute

September 2018 - June 2019

- Engineered hardware, software, and circuit boards for an automated training rig for mice
- Created a game engine framework and refactored existing code to implement framework
- Maintained documentation of the system design

Video Game Developer: UCSB Anthropology Department

June 2018 - December 2018

- Designed video games for use in a research experiment

Awards

UCSB Capstone: Best Technical Project in Mechanical Engineering

June 2019

- Designed hardware and software for a high precision pan-tilt system for FLIR

UCSB Junior Mechanical Engineering Design Challenge: Best Technical

June 2018

- Designed a safety device for a coffee maker used by dementia patients

Other Work Experience

Server: Ritz Carlton Bacara Santa Barbara, CA

June 2017 - June 2018

- Created a personalized eating experience for guests at a high end resort

Sales representative: Capay Organic, San Leandro, CA

May 2016 - October 2016

- Represented Capay Organic at various events

Valet: Luxe Valet, San Francisco, CA

January 2016 - May 2016

- Communicated with customers and parked vehicles