

# HASAN SELIMOVIC

## MECHANICAL ENGINEER

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## EDUCATION

San Francisco State University

*August 2016 – May 2020*

B.S. Mechanical Engineering, GPA: 3.5

- Relevant coursework: Mechanical Design, Computational Fluid Dynamics (CFD), Heat Transfer, Thermodynamics, Thermal Power Systems, Fluid Mechanics, Control Systems
- Accomplishments: Member of Tau Beta Pi (Engineering Honors Society), Dean's List

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## EXPERIENCE

Research Assistant / *Biomechatronics Laboratory / SFSU*

*August 2019 – May 2020*

- Analyzed potential materials for petri dish replacements for In Vitro Fertilization using Atomic Force Microscopy and a theoretical approach
- Studied material properties such as viscosity, elasticity, and deformability
- Utilized SolidWorks Simulation to analyze stresses present during human egg transport

Team Member / *Engineering Senior Design Project / SFSU*

*August 2019 – May 2020*

- Worked in a team of 4 to conceptualize, design, build, and test an autonomous vehicle for beach trash collection
- Integrated different components into overall design, including powertrain, control systems, vision system, and chassis/frame
- Created numerous prototype versions using 3D printed PLA and laser cut acrylic
- Built a functioning robotic arm capable of collecting and placing trash in compartment

Personal Project / *Smart Mirror*

*November 2020*

- Designed and built a smart mirror displaying time, weather, news, and entertainment
- Programmed a Raspberry Pi to display a smart mirror platform on an LCD monitor
- Implemented a PIR sensor for motion detection, decreasing energy consumption

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## SKILLS

**Software/Technical:** SolidWorks, MATLAB, Simulink, Python, C++, FEA, Rapid Prototyping

Soldering, Power Tools, Raspberry Pi, Automotive Experience

**Personal:** Prioritize accuracy and detail, great communication skills, dependable, organized