

SIERRA BONILLA

"I will be graduating June 2020 with a BS in bioengineering with honors and a minor in mathematics. My professional interests include medical device engineering, data analytics, electrical engineering, and their applications to global health."

EDUCATION

UNIVERSITY OF WASHINGTON 3.5 GPA

JUNE 2020

Bachelor of Science – Bioengineering

SKILLS & ABILITIES



RESEARCH

Academic & industrial research background
Lab setup | Planning | Reporting | Broad math and statistical capability



ULTRASOUND TECHNOLOGY

Ultrasound physics | Imaging | Contrast agents | Doppler | HIFU | Phantoms



PROCESS ENGINEERING

Kanban boards | Lean & Six Sigma tools | the Stanford Biodesign process



BUSINESS MANAGEMENT

Project management | Social media strategy and implementation | Start-up company experience | Collaboration across teams | Budgeting | Meeting support | Cataloging | Event coordination | Data entry



IT PROFICIENCIES

MS Office | MATLAB | SOLIDWORKS | Autodesk Inventor | COMSOL | Labview | Qlab | VueBox | Python | Java



SOFT SKILLS

Outgoing and approachable presence with a reliable work ethic passionate about maximizing efficiency
Fact and logic driven | Adaptive | Problem Solver | Empathetic

EXPERIENCE

ULTRASOUND RESEARCH ASSISTANT AT UNIVERSITY OF WASHINGTON

Member of an ultrasound therapeutic research team focused on image optimization, CAD, and MATLAB simulations with extensive lab work.

PROCESS ENGINEERING INTERNSHIP AT SIGHTLIFE

Leveraged Six Sigma to streamline donation processes and collaboratively implemented department-wide changes.

FULL STACK DEVELOPMENT CONSULTANT FOR UW MEDICINE WEB APP

Created a web app using Python for the evaluation of cerebral palsy patients.

MECHANICAL ENGINEERING INTERNSHIP AT INTELLECTUAL VENTURES

R&D for cheap alternative cold-chain vaccine transportation devices.

Other Relevant Experience

MARKETING INTERNSHIP FOR LIVINGLEKKER (START-UP DUTCH COMPANY)

CO-FOUNDER AND PRESIDENT OF THE RESEARCH & INNOVATION CLUB

JUNE 2018 – PRESENT



JUNE 2019 – SEPTEMBER 2019



MAY 2019 – AUGUST 2019



JUNE 2016 – SEPTEMBER 2016



MARCH 2016 – JUNE 2016

NOVEMBER 2015 – MARCH 2016

RECOGNITION/ AWARDS

ULTRASOUND SYMPOSIUM ABSTRACT SUBMISSION 2020

"Enhanced Heating with Microbubbles in High Intensity Focused Ultrasound Applications"

DEAN'S LIST SPRING 2017, WINTER 2018, AUTUMN 2018, WINTER 2019, SPRING 2019, AUTUMN 2019

CERTIFICATE OF HIGH SCHOLARSHIP 2018-2019

WASLA MERIT AWARD 2018

CONFERENCE SPEAKER AT WWCCSMC 2016

"Robotic Arm Kinematics: An examination of kinematics for two- and three-dimensional robotic arms using trigonometry and linear algebra to derive the transformation matrices to obtain robotic-arm coordinates for complex motions." 2016 Western Washington Community College Student Mathematics Conference

PRESENTER AT THE COMMUNITY COLLEGE UNDERGRADUATE RESEARCH INITIATIVE 2015

Presented MT-CO1 gene expression in Pacific Northwest Salmon project