

# Ramzi Abu Manneh

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## WORK EXPERIENCE

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**Element Materials Technology, Associate Technician SAR/ RF Safety** *Feb 2022- Present*

- Performed compliance testing within a variety of laboratory RF measurement equipment. Equipment included amplifiers, R&S CMW500 Wideband Radio Communication Tester, and Dasy6 software.
- Evaluated cutting edge wireless devices and applied applicable standards.
- Collaborated in a team environment and assisted in the development and improvement of test methodologies, and test plan preparation.
- Compiled and reported test results using MS Word, MS Excel, and Adobe Acrobat.
- Performing tests on antennas that support various generations of network technology (UMTS/GSM/LTE/5G NR/Bluetooth/ WI-FI)
- Measured dielectric properties of tissue-simulating liquids (TSL) and performed system checks, including verifications and validations to ensure that the system operates within its specifications.
- Experienced working in very high-security environments, maintaining strict client confidentiality and zero-tolerance exposure of sensitive data and prototype samples.
- Oversaw the training of new hires and provided meaningful instructions to ensure a smooth boarding.

## EDUCATION AND PROJECT EXPERIENCE

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**Bachelor of Science in Biomedical Engineering**

*San Jose State University*

*Aug 2020 - May 2024*

**GPA: 3.824**

**Endothelialization of Coronary Artery Bypass Graft to Study Neointimal Hyperplasia** *Aug 2023 - May 2024*

- Developed a Python program managing a peristaltic pump for modulating flow in an in-vitro model,
- Conducted testing by simulating various flow patterns using the BIOPAC kit, with a focus on accuracy and consistency.
- Established a foundation for future research by developing an advanced in-vitro model with sophisticated flow control capabilities
- Contributed valuable insights into parameters affecting neointimal hyperplasia (NH), aiming to enhance understanding and identify potential preventive measures.
- Engineered and validated a sophisticated control interface using Raspberry P, enhancing precision in regulating flow dynamics within the in-vitro model.

## LEADERSHIP AND EXTRACURRICULARS

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**Biomedical Engineering Society**

*Associate Vice President, 12<sup>th</sup> Annual Bay Area Biomedical Device Conference*

*Aug 2021 – Mar 2022*

- Collaborated in organizing an industry-wide conference for engineering professionals and students.
- Oversaw conference operations while delegating committee tasks and assignments.
- Established engineering process documentation for member reference.

*Health & Fitness Officer*

*Aug 2022 - Present*

- Coordinating, overseeing, and managing health events for 30+ members on and off campus
- Developing a plan to ensure fitness goals are met for members of BMES.

## CERTIFICATIONS

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- Certified SolidWorks Associate
- Python for Automation