**Work Experience**

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| R&D Engineering Technician | May-August 2019 |
| Vyaire Medical | 22745 Savi Ranch Pkwy, Yorba Linda, CA 92887 |

* Performed design verification testing; specifically fluid flow measurements, using problem solving methodology and good documentation practices
* Assisted in the development of test methods and perform troubleshooting for design verification testing
* Written supplemental to protocol for a design verification test

**Volunteering Experience**

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| Hack for LA at La Kretz Innovation Center, Downtown Los Angeles | July 2019-Present |
| * Volunteer programmer collaborating on a Python project to assist riders on the Los Angeles Metro rail lines | |

**Education**

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| California Polytechnic State University, San Luis Obispo | Jan 2017-June 2018 |
| **Master of Science** in **Biomedical Engineering,** Hemodynamics Focus | GPA: 3.10 |
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| California Polytechnic State University, San Luis Obispo | Sept 2014-Dec 2016 |
| Bachelor of Science in **Biomedical Engineering** |  |
| **Mechanical Design Concentration: Mechanical Design 1&2, Strengths of Materials, Engineering Mechanics** | |

**Engineering Experience**

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| **Data Analyst** | Feb 2019-Present |
| * Coding in Python using Excel, webscraping, and the Pandas module to display personal spending data in a pie chart | |
| **Master’s Thesis: Characterizing Blood Flow to Develop an Understanding of Bleeding Control** | Jan. 2017-June 2018 |
| * Goal: Develop an understanding of junctional hemorrhaging by varying lengths of compression with constant cross-sectional area and varying cross-sectional area reduction with constant length * Modeling fluid flow through a tube using FEA software, COMSOL and experimentally with flexible tubing * Developed a thesis paper, which is comparable to writing design verification lab protocol | |
| **“Medical Device Evaluation and the FDA Approval Process” Course** | Mar-June 2017 |
| * Became familiarized with topics including GMPs, Quality Systems, ISO standards, CAPAs, etc. | |
| **Automation of Heart Valve Expansion Test for Edwards Lifesciences Senior Project (NDA)** | Sept. 2015-June 2016 |

* Collaborated in an interdisciplinary team of 4 to develop a completely automated testing process
* Helped define, plan (using CAD), coordinate, & communicate a mechanism for a heart valve expansion test
* Manufactured and performed early stage testing of the design prototype
* Participated in technical design reviews with cross-function Edwards teams and college professors

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| **Pullout Strength Analysis of Potted Inserts Group (Design Of Experiments)** | Jan-Mar 2016 |

* Determined pullout strength of potted inserts used as special mounting points for composite material
* Implemented basic mechanical test procedure to record tensile pullout strength of potted insert
* Performed data analysis using 2-factor ANOVA and two sample t-test

**Computer Program Proficiencies**

Python, Matlab, SolidWorks, Abaqus, C Programming, Visual Basic, Minitab, JMP, ProE, MS Word/Excel/PowerPoint

**Relevant Coursework**

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| 1 Year Multi. Senior Design | Biomaterials | 1 Year Independent Research |
| Engineering Technical Writing | Cardiovascular Pathology | Design of Experiments |

**Linkedin Profile**

linkedin.com/in/nick-bosio-0393b3103