

# Michael Bollig

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## EDUCATION

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### **B.S. Biomedical Engineering (Biomechanics)** - May 2014 - University of Arizona, Tucson, AZ

Interdisciplinary senior design: *Trans-scleral Ocular Tonometer sponsored by Texas Instruments*

Design Awards: *Best use of prototyping; DaVinci Dinner Invitation*

#### **Selected Coursework:**

Probability and Statistics

Biomechanical Engineering

Translational Biomedical Engineering

Numerical Methods

## EXPERIENCE

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### **HeartFlow Inc, Redwood City, CA & Austin, TX**

Process Engineer III *August 2017 – Present*

- Developed and fully automated an accuracy and reproducibility monitoring system which identifies regions of interest using a clustering algorithm, then extracts and compiles sets of data from groups of patients. This tool is used for quality, efficiency, and training, saving hundreds of hours of overhead while simultaneously improving production quality
- Worked interdepartmentally for 16 months on Data Engineering team, building cloud-based data architecture used for company business intelligence, centralizing and consolidating data across all departments
- Lead role in implementation of Tableau Online as a data visualization and accessibility platform for the company

Process Engineer II *February 2016 – August 2017*

- Led process development through inception, pilot testing, quality systems documentation, validation, reporting, and release, with heavy emphasis on statistical methodology
- Primary engineer for setting up a secondary production facility, now hosting >50% of the production workforce
- Implemented the imaging quality assessment process, used as a first pass for the assessment of all incoming CT data

Senior Case Analyst *August 2015 – February 2016*

- Investigated customer feedback, and led side projects primarily for the Process and Quality Engineering team
- Extensively tested for acuity and rigor, requiring 5 internal certification levels, for the responsibility of reviewing Analyst work and guiding improvement

Case Analyst *June 2014 – August 2015*

- Responsible for quantitative assessment of CT imaging data utilizing internally developed software and process to generate individualized digital models of patients' coronary arteries for computational fluid dynamic analysis

## SKILLS AND STRENGTHS

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**Programming and Data** – AWS cloud, ORM, Python, R, SQL, OOP, RDS, Integrated testing, Containerization, Tableau

**Process and Quality** – SPC, CAPA, ISO, Process Validation, Lean Six Sigma, Statistics, Numerical Analysis, Optimization

**Soft Skills** – Excellent public speaking and presentation, Interdepartmentally collaborative, Enthusiastic, Innovative problem solver, Highly motivated, Strong written and interpersonal communication

## INTERESTS AND HOBBIES

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**Music** – Keyboardist for a live music band, 22 years of piano, 11 years of guitar, endlessly excited to learn more

**Health** – Intramural indoor/outdoor soccer, volleyball, Reebok Spartan Sprint, several 5ks and one painful half-marathon

**Dance** – President of Capoeira Club of University of Arizona 2012-2014, Salsa, Intermediate tap dancing, Novice ballet