BRENT T. DOLAN

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EDUCATION

University of California Berkeley *2011-2012*
Master's of Engineering Leadership, Mechanical Engineering Cumulative GPA: 3.88

Johns Hopkins University *2007-2011*
Bachelor of Science in Mechanical Engineering Cumulative GPA: 3.65

RELATED EXPERIENCE

Intuitive Surgical Sunnyvale, CA
Mechanical Design Engineer *9/2014-present*

Member of the da Vinci Xi design team responsible for new product development and continued improvement of 30 Endowrist instruments

- Managed a cross-functional team driving multiple instrument and component level projects for manufacturability, reliability and complaint driven improvements
- Aided in the development, test, validation and 510K launch of 8 new instruments
- Established new documentation, validation and risk management practices and subsequently drove harmonization across multiple project platforms and functions

Junior Mechanical Engineer *5/2012-8/2014*

Member of the instrument team responsible for the next generation Da Vinci Sp (Single Port) Robotic Surgical System

- Managed instrument design V&V and reports for a FDA 510K medical device submission
- Collaborated with outside agencies, vendors, and manufacturers to design, prototype and refine components and fixtures using Solidworks CAD and machine shop
- Generated and evaluated concepts to support 3 CAPA projects
- Excelled in a small, motivated, high performance team under constant deadlines

Siemens Energy Berkeley, CA
Capstone Research Project *9/2011 – 5/2012*

Led a three person student team in the development of a critical Rare Earth Material strategy for end-of-life recycling of NdFeB magnets, including:

- R&D, market evaluation and business proposal for fabrication of 2nd gen. magnets
- Quantitative triple bottom line cradle-to-grave Life Cycle Assessment (LCA) comparison of recycling to primary extraction of rare earth oxides

Baltimore Aircoil Company Baltimore, MD
Capstone Design Project *9/2010 – 5/2011*

Led the redesign of an HVAC Cooling Tower louver, including:

- Concept ideation, development of Computational Fluid Dynamics 2D numerical model, and construction of two scale test beds for water and airflow characterization
- Management of project scheduling, risk analysis and client interaction

Alliant Techsystems (ATK) – Advanced Weapons Plymouth, MN
Mechanical Design Intern *Summer 2010*

- Calculated tolerance and failure analyses using Pro-E for model rendering and drawings
- Drafted multiple test procedures, oversaw test execution and reported data results

ADDITIONAL INFORMATION

Technical Proficiencies: MS Office, Agile EPDM, CAD, Matlab, Data Analysis, Product Development
Interests: Ice Hockey, Running, Crossfit, Photography