

BRYAN ALLEN BISHOP

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Permanent Address

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Objective To begin my R&D career.

Education **Bachelor of Science, Mechanical Engineering, May 2012**
University of Texas at Austin

Related Courses

Building Brains, Engineering Design and Graphics

Experience

09/2008 - Present **Research Asistant, Automated Design Lab, UT Austin**
Automated manufacturing design and evolutionary optimization, programming. Main project - generation 10's of thousands (millions?) of different designs and select the best for further review.

06/2008 - 07/2008 **Research volunteer, Ellington Lab, UT Austin**
Running polyacrylamide gels, implementation of Winfree DNA transcriptional logic gates for the "intersection of computation and manufacturing". Biology / evolutionary engineering lab.

Academic Experience **Innovation Automation, BioBarCamp 2008, Palo Alto, CA (2008)**

Focusing on computational design engineering, the "do-it-yourself" biotech toolkit, laboratory automation, and applications to synthetic biology.

Analysis of Datapath Design

RISC/CISC microprocessor rchitecture design decisions. ALUs, pipelines, lookahead.
High school Distinguished Achievement Program project. 2007.

UT Biodiesel Reactor Project

Design work with Dr. Sata's bioreactor group for the scale-up from 5 gallons to 10,000 gallons. Began Sept. 2008.

Cerebellum Simulator Project

Mauk Lab cerebellum simulator is written in Visual Basic. Specific responsibilities include converting the code base into C/C++ with OpenMP for distributed computing.

Accomplishments

IEEE Manufacturing Automation Group, Founder, 2008
Hays High School Math Club
High School Computer Science Team
High School VICA/FIRST-Electronics Team
Dahlstrom Technology Club, Founder/Director, 2003

Employability Status: US Citizen/Permanent Resident