Benjamin Yarmis

CONTACT INFORMATION

11909 Oak Trl
Austin, TX 78753
www.blog.yarm.is

+1 203 856 6482
ben@yarm.is

EDUCATION

The George Washington University   Washington, DC
B.S., Mechanical and Aerospace Engineering; Aerospace Concentration   **August 2009 – May 2013**
GPA: 3.48/4.00, *cum laude*

SKILLS

- Python
- Javascript / Typescript
- ReactJS
- PostgreSQL
- Imhotep Query Language (IQL)
- MySQL
- MATLAB
- LaTeX
- C Programming Language

- Autodesk Inventor and AutoCAD
- Dassault Systèmes' CATIA V5 and SolidWorks
- KiCAD Electronic Design Software
- Pro/ENGINEER Wildfire and Mechanica
- ANSYS Gambit and Fluent

EXPERIENCE

Indeed   Austin, TX
Data Engineer   **February 2017 – September 2020**
Use Python, PosgreSQL, IQL, and MySQL to create and manage data warehouse. Created serverless metadata API for people and tooling to use. Migrate legacy data warehouse from MySQL to Postgres, improving design and loading methods along the way. Led and managed migration of over a hundred automated reports to new data warehouse. Acquire, clean, and summarize resume data from IQL to Postgres. Incorporate data around new resume product into existing schema, minimizing changes to advertiser-facing reports. Created data source helping increase sales team conversion rate by over 50% for new advertisers. Create automated data check to ensure data validity and timeliness.

Stamford, CT
Business Intelligence Analyst   **August 2015 – February 2017**
Used Python and IQL to create internal tools used by both managers and employees for productiviy reporting and staffing decisions. Tools calculate employee-based metrics such as response times as well as various advertiser-focused metrics such as churn and spend rates. Worked with stakeholders in both sales and client services to give managers access to actionable data and present it in a visually pleasing way. Worked with statisticians to model employee outreach to advertisers and the resulting spend. Reviewed team-member's code and provide guidance on technical matters. Organized lunch-and-learn-like meetings so team-members could share knowledge.

Arccos Golf   Stamford, CT
Mechanical Engineer   **August 2013 – August 2015**
Developed and improving upon golf club-mounted sensors for automatic shot detection and tracking using an accelerometer and Bluetooth 4.0 Low Energy (BLE). Designed sensor enclosures that must fit on the grip of a golf club and withstand physical and environmental extremes while allowing the electronics to be accessible and achieving USGA compliance. Modified, tested, and repaired the enclosed electronics. Designed and manufactured testing equipment that simulates regular and extreme use for battery life estimation and mechanical verification. Designed and manufactured programming equipment allowing for flashing firmware onto multiple sensors at once, minimizing assembly time in both small- and large-scale manufacture.

Collected and analyzed test data using MATLAB and Excel to facilitate product development. Analyzed data from database to troubleshoot hardware and software issues with early batches. Created MATLAB script that queries database to verify the integrity of the data and to ensure accurate course mapping and course metadata.

GE Aviation – Middle River Aircraft Systems   Middle River, MD
Materials and Processing Intern   **May 2012 – August 2012**
Developed and qualified new acoustic and composite manufacturing technologies to reduce cost and cycle time.

Investigated the use of additively manufactured composite core and an improved optical percent open area measurement system.

Manufacturing Intern   **May 2011 – August 2011**
Redesigned the small parts sub-assembly storage and retrieval system using lean manufacturing methods. Created a fastener kanban list for the CF-6 line of thrust reversers to reduce fastener shortages.

Mechanical and Aerospace Engineering Department Tutor   Washington, DC
MAE 2117– Engineering Computations   **March 2012 – May 2013**

SELECTED COLLEGE PROJECTS

Design and Optimization of an FEBR Louver & Storm Shutter   **Spring 2013**
Designed a Forced Entry and Ballistic Resistant (FEBR) louver and optimized using parametric design methodologies. Designed an accompanying storm shutter. Extensively used Pro/ENGINEER Wildfire and Mechanica.

Investigation of Dimpling Effects on Stall of NACA 2412 Airfoil   Group of 3 — **Spring 2013**
Designed, fabricated, and tested as well as performed computational fluid dynamics on NACA 2412 airfoils with dimpling on the upper surface to delay stall and improve performance.

Self-Winching Vehicle   Group of 2 — **Spring 2012**
Designed a vehicle, given a standard motor, to winch itself and a payload up a $45°$ ramp and stop within a designated zone. Placed first in class due to fastest time.

Time-Varying Temperature Distribution in a Metal Plate   **Spring 2012**
Used MATLAB to model the temperature over time of an aluminum plate that was being heated from two sides.

ACTIVITIES

Theta Tau Professional Engineering Fraternity   **August 2009 – May 2013**
Academics Committee Chair

GW Technology Collective   **September 2011 – May 2013**
Board member. Ran multiple workshops for fellow students (An Introduction to CAD and 3D Printing)

PATENTS, HONORS, AND AWARDS

Yarmis, Benjamin, Adrienne Jalbert, and Paul Sabin. 2016. Device For Monitoring Performance Characteristics Associated With User Activities Involving Swinging Instruments. U.S. Patent US20150327386, filed May 8, 2014, and issued Nov 12, 2015.
Yarmis, Benjamin and Tamborlane, William. "A Teenager's View on Diabetes Technology" *Infusystems USA* 5.3 (2008): 17 – 18. Print.
Dean's List: Spring 2010, Spring 2011, Fall 2011, Fall 2012, Spring 2013
Dean's Commendation List: Fall 2010, Spring 2012
Member of Pi Tau Sigma, Mechanical Engineering Honor Society
Scholarship from the School of Engineering and Applied Sciences for Four Years
Children with Diabetes Scholarship Recipient