Jacob Berman

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Education

University of Michigan, School of Information   **Ann Arbor, MI**
Master of Science in Information (Human Computer Interaction)   *May 2019*

University of Maryland, A. James Clark School of Engineering   **College Park, MD**
Bachelor of Science in Mechanical Engineering   *May 2015*
Minor in International Engineering
Education Abroad: France, Spain (Short-term faculty led program: *International Business Cultures for Engineering & Technology*)   *June 2014*

Experience

DENSO International America   **Southfield, MI**
Project Engineer   *November 2015- July 2017*
- Determined project specifications and user experience design needs by gathering customer requirements and performance standards.
- Facilitated focus groups to receive user feedback and identify areas for future product improvements.
- Led roll out of new prototype drawing release process for North American plants and engineering sites across the US and Mexico.

Hybrid Systems Integration and Simulations Laboratory – University of Maryland   **College Park, MD**
Undergraduate Research Assistant   *November 2013- May 2015*
- Co-authored paper at premier conference after creating novel methodology to mimic safety critical situations in virtual reality.
- Created experimental environment and conditions used to induce cognitive load on participants to collect physiological data.
- Researched various aspects of telemetry monitoring systems and identified elements for improved human factors design.

Department of Resident Life – University of Maryland   **College Park, MD**
Customer Service Supervisor   *August 2013 – May 2015*
- Hired, trained, and supervised staff of 12 students to work at 24 hour service desk in residence hall.
- Provided leadership to staff, guiding weekly meetings and facilitating team building exercises throughout the year.

Project Experience

Lean Six Sigma Project – Becton Dickinson   **Hunt Valley, MD**
- Investigated areas for improvement from a Lean Six Sigma perspective on company's new manufacturing facility.
- Collected and analyzed data pertaining to facilities machines through surveys, operator interviews and Design of Experiments.
- Generated solutions and provided Becton Dickinson with suggestions to continuously improve the facility's yield.

Motion Controlled Motorized Screen Mount – Senior Design Project   **August – December 2014**
- Created motorized mechanical arm with screen mount adjusting for user position autonomously.
- Learned C# and used a Microsoft Kinect to track a user's position and send signals to an Arduino to control two motors.

Leadership Experience

National Society of Black Engineers   **Alexandria, VA**
Public Relations & Publications Chair   (Region II & University of Maryland)   *May 2013 – May 2015*

Publications

- Mehdi Kohani, Jacob Berman, Danny Catacora, Byeol Kim, & Monifa Vaughn-Cooke. (2014). *Evaluating Operator Performance for Patient Telemetry Monitoring Stations Using Virtual Reality*. Paper presented at International Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL.

Relevant Skills

- Experience with, Python, Javascript, MatLab, Wireframing, Photoshop, HTML, CSS, Unity, C++, C# Arduino, Processing, Lean Six Sigma, 3D Printing, SolidWorks, Teamcenter Siemens PLM Software proficient in French