

JOSEPH L. MARCHESE

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Education:

B.S. Materials Science and Engineering

- University of Maryland, College Park, MD Expected May 2017
- GPA: 3.4 / 4.0
- Gordon R. England Engineering Scholar August 2016 – Present
- Evelyn K. Chou Hao Endowed Scholar August 2015 – May 2016
- Clark School of Engineering Dean's List August 2015 – Present

Technical Experience:

Biomimetic Dental Composite Research

May 2016 – Present

- Produced and tested ceramic-resin dental composites of various filler substances and compositions.
- Determined the compositions and procedures for testing composites based on material intuition and past experiments.
- Reviewed and edited potential publications detailing experimental conclusions.

University of Maryland Micro Fabrication Laboratory

January 2016 – May 2016

- Performed photolithography techniques such as thin film deposition and patterning in a clean room environment.
- Employed the above techniques to fabricate cantilever device structures on Silicon wafers.

Experimental Materials Laboratory

August 2015 – December 2015

- Synthesized nanoparticles and used X-Ray diffraction to determine particle size and structure.
- Observed the phase transformations of polymer samples using a polarizing microscope.
- Determined thermal expansion and thermal conductivity of polymer samples using a dilatometer.

Work Experience:

House Committee on Appropriations – Washington, DC

June 2015 – August 2015

Minority Staff Intern

- Researched and reported on government programs included in appropriations bills.
- Compiled amendment data necessary for discussion and addition into various appropriations bills.
- Analyzed and reviewed allocation reports for a wide range of government agencies.

Contemporary Services Company – Washington, DC

May 2014 – August 2014

Event Staff

- Worked in a team setting to manage crowds at large sporting and musical events.

Athletics:

University of Maryland Football

August 2013 – December 2016

Position: Offensive Line

- Academic All-Big Ten August 2014 – December 2016
- ACC Academic Honor Roll August 2013 – December 2013

Activities and Affiliations:

Uplifting Athletes: Maryland Chapter

April 2014 – Present

Chapter President

- Designed events that aim to fundraise and spread awareness for research projects on rare diseases.
- Collaborated with chapter leaders from other schools on how to better achieve successful event outcomes.

University of Maryland Materials Engineering Society

January 2014 – Present

- Discussed research topics and events within the University of Maryland Materials Engineering Community.

Skills:

Microsoft Office (Excel, Word, PowerPoint), MATLAB, C++, Autodesk Inventor, Creo Parametric, CES Edupack, ImageJ, Origin, VESTA.