

The George Washington University

Washington, District of Columbia

To all persons who read these letters, Greeting:

*Be it known that the President, Faculty, and Trustees,
by virtue of the authority granted by The United States of America,
have conferred upon*

Joseph Warren Crandall

the degree of

Bachelor of Science

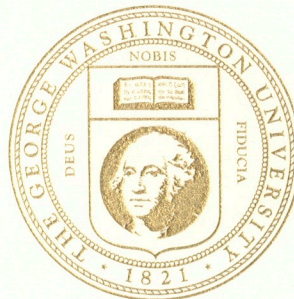
Computer Science

Physics

*together with all the honors, rights, privileges, and responsibilities
thereunto appertaining.*

*In witness whereof, we have hereunto affixed the seal of the University,
and subscribed our names, in Washington, in the District of Columbia,
this twenty-first day of May, two thousand and seventeen.*

David S. Dolling
Dean of the School of Engineering
and Applied Science



Steve Kopp
President of the University