



SUNY POLYTECHNIC INSTITUTE

SUNY Polytechnic Institute
College of Nanoscale Science and Engineering

The dissertation submitted by Jubin Hazra, under the title, "Development of High-Performance Hafnium Oxide based Non-Volatile Memory Device," has been read by the undersigned. It is hereby recommended for acceptance to the Faculty of the University in partial fulfillment of the requirements for the degree of Doctor of Philosophy.

Dissertation Committee Members

<u>Printed Name</u>	<u>Signature</u>	<u>Date Approved</u>
Dr. Alain Diebold		8/7/2021
	(SUNY Poly Committee Member)	
Dr. Carl A. Ventrice, Jr.		8/7/2021
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Dr. James Lloyd		8/8/2021
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Dr. Santosh Kurinec		08/07/2021
	(External Committee Member)	

As chair of the student's dissertation committee, I confirm that all required edits have been made and the thesis document is accepted in final, approved condition.

	8/7/2021
(Dissertation Committee Chair)	Date

Recommendation submitted on behalf of SUNY Polytechnic Institute College of Nanoscale Science and Engineering by:

	08/11/2021
Dean of College, SUNY Polytechnic Institute	Date

	12 August 2021
Dean of Graduate Studies SUNY Polytechnic Institute	Date