BIOGRAPHICAL SKETCH
DO NOT EXCEED FOUR PAGES.

NAME Jon R. Marstrander	POSITION TITLE Instructor, Department of Electrical and Computer Engineering,
UAB ID, NSF LOGIN ID, eRA COMMONS USER NAME (credential, e.g., agency login) (*enter all applicable*) UAB: jmars eRA: JMARSTRANDER	The University of Alabama at Birmingham

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, and include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE (*if applicable*)	MM/YY	FIELD OF STUDY
University of Alabama at Birmingham, Birmingham, AL	Ph.D.	05/2020	Computer Engineering
University of Alabama at Birmingham, Birmingham, AL	M.S.E.E.	12/1987	Electrical Engineering
University of Alabama at Birmingham, Birmingham, AL	B.S.E.E.	12/1985	Electrical Engineering

NOTE: The Biographical Sketch may not exceed four pages. Follow the formats and instructions below.

A. Personal Statement

Since 2005 I have served as faculty in the Department of Electrical and Computer Engineering at the University of Alabama at Birmingham (UAB). I have worked with many researchers on a wide variety of research projects. Most of this research has focused on the use of image and signal processing techniques to analyze images of the human brain to better understand and diagnose Parkinson's Disease. I have contributed to the field of tensor-based morphological analysis, combining diffusion tensor imaging and anatomical data.

While at the university, I have taught a wide variety of engineering courses at the graduate and undergraduate level, with an emphasis on courses dealing with image and signal processing, embedded system design, radio communications theory, and other mathematical topics. I have mentored several graduate and undergraduate students.

Prior to joining UAB as faculty, I worked in industry as a research and design electrical engineer. My work in industry focused on the design and development of digital and analog hardware, low-level, embedded software, and on the design and implementation of real-time image and video processing algorithms.

I aspire to continue using my experience and expertise to provide solutions for the most complex problems, and to continue helping my students to expand their knowledge and professional expertise.

B. Positions

<u>**Employment**</u>

January 2005 – present	Faculty Instructor, Department of Electrical and Computer Engineering, University of Alabama at Birmingham, Birmingham, AL
May 1994 - December 2004	Consulting Electrical Engineer, (self employed) Birmingham, AL
March 1988 - May 1994	Research Engineer, Southern Research Technologies, Birmingham, AL

<u>**Professional Certifications**</u>
Registered Professional Engineer (P.E.) in the state of Alabama since 1992

C. Honors and Awards

D. Selected Peer-reviewed Publications

D. Synergistic Activities

E. Research Support

List both selected ongoing and completed research projects for the **past three years** (Federal or non-Federally-supported).