

## Vita, Robert J. McTaggart II

May 1999 Ph.D. in Physics, Pennsylvania State University.  
1998-1999 Lecturer of Physics, West Virginia University.  
Spring 1998 Visiting Assistant Professor, Shippensburg University.  
1997 Teaching Assistant, Pennsylvania State University.  
1994-1996 Research Assistant, Pennsylvania State University.  
1991-1993 Teaching Assistant, Pennsylvania State University.  
May 1991 B.S. in Physics with honors, West Virginia University.  
May 1991 B.A. in Mathematics, West Virginia University.  
Graduate of West Virginia University Honors Program.  
1989 Barry Goldwater Scholar.  
WVU Presidential Scholar.

On experiment E835 at Fermilab I was responsible for the maintenance and operation of the LeCroy 1440 High Voltage System. I modified the program that operated the High Voltage System in E760 for the needs of E835, and in addition wrote the program that monitored said system during data taking. I also wrote the program that took pedestals for E835, and developed a GUI interface to change variables in the experiment's database accessed by the on-line filter program. I assisted in the cabling of the data acquisition of the experiment, and the installation, debugging, and calibration with cosmic rays of the forward calorimeter of E835.

Prior to the running of E835, I participated in the light quark analysis of E760 data, specifically the  $\pi^+\pi^-$  channel. This involved a likelihood method analysis of Dalitz plots. I was also involved in the development of a preliminary 3-D event display for Experiment 835. While at Penn State in 1993 I assisted in the wiring of straw chambers used in Experiment 864 at Brookhaven National Laboratory. At West Virginia University I studied the behavior of the bipolar magnet in the context of strange attractors and the bifurcation route to chaos.