October 21, 2020

Jason D. Bakos

Computer Science & Engineering Professor

Room 2213, Storey Innovation Center

Columbia, SC 29208

Dear Dr. Bakos,

What became the most appealing aspect of the University of South Carolina in my search for an undergraduate program, was its option to participate in the school’s conducted research. This has led to my pursuit of a bachelor’s degree in Computer Science at the University of South Carolina’s Columbia campus. While searching I have found your research on circuitry level computer design and the optimization of energy usage and cooling on high performance systems to be particularly fascinating and most well suited for my interests and prior experience.

My previous experience lies in circuitry and computing, having previously worked under mentors from both *Boeing* and *Bosch* learning many skills in designing circuitry, code, and computer systems with particular focus on optimizing system performance while staying within bounds of energy supply. I also participated in my high school robotics team as lead student electrical head working as the designer of our robot’s circuitry and maintenance and the communicator between our electrical team and our mechanical and computing team. I have also made many of my own computers and am efficient and skilled in soldering and micro soldering as I have many hours of practice and mentorship in both.

My application to be a student participating in your research comes from a deep curiosity for the subject matter and a desire to assist and learn from those who are knowledgeable in the field. With my previous experiences, I feel I could assist optimally within your research. I look forward to a chance to participate in your research. Thank you for your time and consideration.

Sincerely,

Avalee Jacobs