



To whom it may concern,

I take this opportunity to recommend Karl, an exceptionally bright, motivated, and assiduous student I taught over Fall 2023 as a Graduate Student Instructor (Teaching Assistant) for Physics 7B, the heat, electricity, and magnetism course for engineers at Berkeley. This past semester, I interacted with him in biweekly discussion (and sometimes lab) sessions, adding up to 4 hours a week, and I enthusiastically vouch for him.

I am currently teaching Physics 7B for my 4th consecutive semester, and **Karl has been, without a doubt, the brightest and most inquisitive of the 192 students I've taught** over my time as a grad student. His questions are always incisive and thought-provoking, and cut to the meat of the matter. The first half hour of every section I taught would be spent answering the many crucial and intriguing questions he raised. This was in addition to all the queries I'd answer over email (not to mention that he's probably one of the couple of students who've ever emailed me with problems bugging them). These experiences firmly establish just how driven he is to learn and how keen he is to develop a deep and thorough understanding of physics. Many of the discussions he initiated went well beyond the scope of what the class required, and he was perpetually eager to know more.

Karl's academic aptitude speaks for itself. After every exam, I'd sort the grades of the 300-odd people who'd taken the test to see how my students were doing. I just came to expect to find Karl's name within the first couple of top places with a score in the high 90s while the average for the 300 students was in the 40s. He was also a remarkably diligent student whom I could expect to count on to attend every single class, regardless of whether 2 or 24 people were present. Having one of my students share my devotion to physics

was truly a delight.

Karl worked really well in team settings, as was evident from the lab sections, which I organized in groups of 3-5. Again, he'd have a ton of questions about the workings of the devices we used, multimeters, Helmholtz coils, and so on. His group would complete the experiments frictionlessly, impeccably, and without my assistance. He was an asset to the class, both to me as the teacher and to his peers as a collaborator—always humble, polite, and cordial.

I have no doubt that Karl will succeed in any academic endeavour he pursues. He has the intelligence, creativity, and diligence essential for achieving excellence in physics and beyond. I enthusiastically recommend Karl, the most passionate student I've ever had the fortune of teaching.

Please feel free to get in touch for further information.

Siddharth Tiwary.