

CHRISTIAN JAMES E. BARIMBAO

Ipil Residence Hall, Apacible St. corner
Magsaysay Ave. UP Campus, Quezon City
0905-553-2977, cj.barimbao@gmail.com

30 August 2023

Ms. Joanna G. Syjuco

Chief Science Research Specialist

Computer Software Division

Department of Science and Technology-Advanced Science and Technology Institute

DOST-ASTI Bldg., UP Technology Park Complex

C.P. Garcia Avenue

Diliman, Quezon City

Dear Ms. Syjuco:

I learned from DOST-ASTI's website about the need for a Research Software Engineer (PTS I). I am extremely interested in this position and think that my diverse skillset is well-suited for the opening.


I am a Bachelor of Science in Computer Engineering graduate at the University of the Philippines Diliman. Throughout my studies, I have gained extensive experience in developing software applications, ranging from high-level programming languages such as Python to mid/lower-level languages like C and MIPS Assembly. In my undergraduate thesis, I further strengthened my expertise in Python programming by developing a Virtual Kulintang application. I designed a computer vision detection logic with an audio synthesis algorithm when a colored marker stick crosses a bounding box on the screen. This resulted from a fruitful collaboration with Dr. Maricor Soriano, head of the Video and Image Processing subgroup of the Instrumentation Physics Laboratory in the National Institute of Physics UP Diliman. This was presented as a conference paper (full paper [here](#) & video demo [here](#)) in the 41st Samahang Pisika ng Pilipinas Physics Conference last July 21, 2023 and won Best Poster in the Mathematical Physics, Optics, and Interdisciplinary topics category. I was also recently awarded the UPEEEAAI Medal for Best Undergraduate Project 2023 for this thesis. This application is hosted on a GitHub repository in this link: <http://github.com/cjbarimbao/virtualkulintang>.

My undergraduate courses in engineering also equipped me with knowledge on Software Development Life Cycles, Project Management skills, Agile Methodologies, version control using Git, and Conda virtual environments that I have applied on my thesis, working in a group with two other members.

In addition to my academic pursuits, I have actively engaged in various student organizations, assuming leadership positions. As the Vice President for Membership in UP Babaylan, an organization dedicated to promoting gender equality and safe spaces for LGBTQIA+ youth, I spearheaded the recruitment campaign and successfully inducted 20 new members. This was the highest number in the past 10 years. During my freshman years, I also served as a Membership Relations Director in my home academic organization, UP Circuit. This experience pushed me beyond my comfort zone, helping me develop valuable interpersonal skills and improve my work ethic. These experiences have honed my skills and enabled me to adapt my communication strategies to effectively engage with diverse individuals.

I have enclosed my résumé for your reference, providing further details of my qualifications. I would be more than happy to answer any questions you may have. You can reach me at 0905-553-2977 / cj.barimbao@gmail.com to schedule an interview at your convenience. I am eager to discuss how my skills and experiences can contribute to DOST-ASTI.

Sincerely,



CHRISTIAN JAMES E. BARIMBAO