Study Plan for the Liberal Arts Undergraduate Program at the University of the West

Introduction

My name is Huang, Tzu-Heng, a third-year student majoring in Information Applications at Fo Guang University. Throughout my academic journey, I have achieved notable successes—from twice earning the top ranking in my department to serving as President of the Department Association, where I organized an insightful visit to TSMC. These experiences, along with diverse internships and research projects, have shaped my commitment to integrating technology with humanistic values. I aim to improve my English proficiency so I can become a technology professional who leverages innovation to benefit society while maintaining a human-centered approach.

Academic and Professional Achievements

1. **Departmental Honors:**

• I have achieved the top ranking in my department on two separate occasions, reflecting my strong academic performance.

2. **Leadership Experience:**

• As President of the Department Association, I organized a visit to TSMC to expose my peers to advanced industrial practices and foster industry-academia connections.

3. **Industrial Collaboration and Internships:**

• **Industry-Academia Collaboration Project:** I participated in a project developing a hospital conversation robot and a knowledge graph RAG (Retrieval-Augmented Generation) application, deepening my understanding of applying AI in healthcare.

• **National Science Council Undergraduate Project:** I contributed to establishing a standard procedure for constructing a chronic disease health education knowledge graph using web scraping and large language models.

• **Ellis Technology Internship at Smart Healthcare:** I interned at Smart Healthcare (https://smart-healthcare.com.tw), where I worked on developing hospital conversation robots and related applications. This internship provided practical experience in a corporate environment and is entirely separate from my European internship.

• **European Internship at Fo Guang Shan in Vienna, Austria:** In Vienna, at Fo Guang Shan, I was responsible for maintaining websites and network systems, providing basic IT training on daily life topics, shooting videos, and managing online live streaming. This experience is closely tied to the Buddhist background of Fo Guang Shan, complementing the humanistic values in my studies.

4. **Academic Conference Participation and Paper Presentation:**

• I participated in the **2024 Semiconductor Manufacturing Intelligent International Symposium on November 29, 2024**.

• On **November 30, 2024**, I presented my research paper, "Establishing a Standard Procedure for a Chronic Disease Health Education Knowledge Graph System Based on Web Scraping and Large Language Models," at a conference organized by the China Industrial Engineering Society. This experience enhanced my research presentation skills and academic communication.

5. **Certifications and Technical Skills:**

• I hold international certifications such as SSE's Python and Unity credentials.

• Additionally, I have earned technician certifications in Computer Hardware Repair (Level C), Computer Software Application (Level C), Industrial Electronics (Level C), and Heat Treatment (Level C), validating my diverse technical expertise.

Learning Objectives and Timeline

My study plan is structured to achieve a balanced integration of technology and humanities over the coming years:

• **Short-Term Goals (1-2 Years):**

• Improve my English language proficiency to access international research, collaborate globally, and articulate my ideas effectively.

• Seek and refine my life direction through personal reflection, academic exploration, and engagement with diverse perspectives.

• **Mid-Term Goals (2-4 Years):**

• Deepen my interdisciplinary knowledge by taking courses that blend technical subjects with humanities and social sciences.

• Pursue study-abroad opportunities to broaden my cultural perspective and build a global network.

• **Long-Term Goals (Beyond 4 Years):**

• Pursue graduate studies to further specialize in my field, then enter the industry or embark on entrepreneurial ventures as I continue to evolve professionally.

• Serve as a bridge between Eastern and Western technological practices by leveraging my technical expertise and cross-cultural experiences.

Why the University of the West?

The University of the West's Liberal Arts program is uniquely designed to allow students to create their own interdisciplinary curriculum, balancing technical skills with the insights of humanities and social sciences. This approach aligns perfectly with my goal of becoming a technology professional who is innovative, ethically conscious, and deeply aware of social needs.

Conclusion

My diverse academic, leadership, and internship experiences—from departmental honors and TSMC visits to cutting-edge research projects and distinct internships in both Europe and Taiwan—have prepared me to excel in an interdisciplinary educational environment. By enhancing my English proficiency and engaging in a

comprehensive learning program, I am confident that I will become a technology professional dedicated to using innovation for the greater good. Thank you for considering my application.