Kateryna Shushura Kyiv National University of Technologies and Design (Kyiv) Scientific supervisor – Senior lecturer Nataliia Liubymova THE PATH TO SUCCESS IN THE ERA OF TRANSFORMATIONS: INTERNATIONAL OPPORTUNITIES FOR DEVELOPMENT

Introduction

In the context of the rapid development of globalization processes worldwide, the professional formation of specialists is gaining particular relevance. The modern labor market imposes new requirements on workers' competencies and skills, necessitating the search for effective ways to adapt the education system to global challenges. International academic mobility, experience exchange, and the integration of national education systems have become essential components in shaping a competitive specialist. Studying abroad plays a crucial role as a tool for professional growth and expanding career prospects.

Experience of Studying at Riga Technical University

My studies at Riga Technical University, specializing in Clothing and Textile Technology, became a significant stage in my professional development. Riga Technical University is a leading higher education institution in Latvia, with a strong material and technical base and a highly professional teaching staff. The educational program is designed to train specialists capable of solving complex research and development tasks in the textile industry and garment manufacturing (Castells, M., 2010)

The education at the university had several key features that significantly influenced my professional development:

1. Interdisciplinary approach to learning.

The program combined disciplines in materials science, textile production technology, fashion design, and research methods for material properties, providing a comprehensive understanding of processes in the textile industry. The curriculum is well-structured and focused on developing a holistic vision of the textile industry, integrating theoretical knowledge with practical skills, fostering systematic thinking among students, and preparing well-rounded specialists capable of solving complex professional tasks. The structure of the program ensured the organic integration of

various disciplines, reinforcing previously acquired knowledge. For example, knowledge of materials science was complemented by practical production skills, technological processes were examined through the lens of design solutions, and research methods were integrated into all areas of textile studies. This integrated approach fosters systematic thinking, develops the ability for complex analysis, and prepares specialists capable of working at the intersection of different fields (Makovetskaya, N.V. 2011)

2. *State-of-the-art laboratory equipment*. The university provided access to advanced technologies and equipment for experimental research, allowing me to master modern methods of textile material analysis. As part of the Clothing and Material Development course, the professor provided access to experiments with various textile materials on specialized machines. During these sessions, I independently conducted experiments with other students, learning how to operate these machines and study different textile material properties. Additionally, the university has a vast base of innovative textile nanomaterials, which students can use for research projects (Miao, Dongyang; Wang, Xianfeng; Yu, Jianyong, 2021).

3. Practice-oriented learning. A significant part of the educational process was devoted to practical training and laboratory work, contributing to the development of applied skills.

4. Collaboration with leading industry enterprises. Close ties with textile and clothing enterprises in Latvia and other European countries create unique opportunities for students to immerse themselves in a real production environment (Rūta Lapsa, Tatjana Smirnova, 2022). During my studies, a visit to the Lindström factory was organized, providing invaluable practical experience for a deeper understanding of production processes. The tour offered detailed insights into the functioning of different departments of a garment enterprise, allowing us to familiarize ourselves with innovative equipment and modern manufacturing technologies. Special attention was given to the standardization of garment production, a critical aspect of the modern textile industry. Such practical visits not only complement the theoretical learning but also enable students to observe real-world applications, integrate knowledge from different subjects, and form a comprehensive understanding of the textile industry. This approach

helps future specialists gain unique competencies, significantly increasing their competitiveness in the job market.

5. *Participation in international research projects*. Engaging in joint textile research projects with university partners from other countries contributed to developing skills in international scientific communication and collaboration.

6. *Lectures from guest professors from European universities*. This experience provided an opportunity to explore cutting-edge technologies in more detail. Within the framework of the AUTEX project collaboration, the university invited lecturers from other countries who specialize in developing and improving technologies in the garment industry. I attended lectures from Dresden Technical University professors on 3D body scanning research. This experience was unique, as professors from different universities and Riga Technical University experts in the field were present, fostering the exchange of innovative ideas.

7. *Experience exchange in the era of globalization*. Globalization creates unique opportunities for knowledge and experience exchange among specialists from different countries. During my studies at Riga Technical University, I had the opportunity to participate in various forms of exchange:

• International scientific conferences and symposiums. The university regularly organizes events where researchers from different countries share the results of their scientific work, fostering a global perspective on industry development and integrating national research schools (Kozlowski, Ryszard M., 2012).

• *Student and faculty exchange programs*. These programs facilitate the exchange of teaching methodologies, research approaches, and cultural aspects of educational systems.

• *Joint research projects*. Participating in international research projects allows scientists from different countries to collaborate on solving global challenges in the textile industry.

• *Virtual* platforms for knowledge exchange. The development of information technology supports the creation of virtual professional communities where specialists share experiences and work together on professional tasks.

• *Internships* at international enterprises. Practical training at companies in other countries helps students learn about different approaches to production organization and quality management.

• *Volunteering*. Volunteering in the ESN project facilitates quick adaptation through effective communication and active engagement in organizing events for international students. Communication with students from various backgrounds enables experience exchange across different fields and improves conversational English proficiency.

Challenges of Professional Development in a Globalized World

Despite the numerous opportunities globalization offers, the process of professional development faces several challenges:

1) Language barrier. Proficiency in foreign languages, particularly English, is essential for effective communication in an international environment.

2) Adaptation to different education systems. Differences in teaching approaches, assessment methods, and academic organization require flexibility and adaptability.

3) Recognition of qualifications. The issue of diploma and professional qualification recognition remains relevant despite international agreements.

4) Cultural differences. Different cultural traditions and business ethics can create barriers to effective cooperation.

5) Rapid technological change. The necessity for continuous knowledge and skill updates in the face of fast-paced technological progress. Prospects for Professional Development in the Textile and Clothing Industry

My experience at Riga Technical University has opened new professional development prospects:

1. International career opportunities. Acquired knowledge and skills allow me to apply for positions in international companies and research centers.

2. Participation in global innovation projects. The competencies I have developed enable me to contribute to developing and implementing innovative solutions in the textile industry.

3. Starting a business with an international focus. Understanding global trends in the textile and clothing market helps in forming successful business models.

4. Scientific research. Gained research skills provide a foundation for further academic work and participation in international research projects.

5. Teaching with the integration of international best practices. The opportunity to share acquired knowledge and experience with future generations of specialists.

New Specialized Field

Considering my experience and modern trends, a promising research direction is "Development of Eco-Friendly Functional Textile Materials Using Biotechnology." This specialization integrates biology, materials science, nanotechnology, and textile manufacturing to create innovative materials that mimic natural systems and adapt to environmental changes (Kozlowski, Ryszard M., 2012).

Key research areas within this specialization include:

Developing textile materials that replicate the structure and functions of natural objects (lotus leaves, shark skin, spider silk, etc.) (Hu, Jinlian, 2011); Creating "smart" fabrics with thermo- and moisture-regulating properties (Friedman,T., 2007); Integrating nanomaterials into textile structures for additional functions (antibacterial, UV protection, self-cleaning) (European Textile Network, 2022); Developing methods for assessing the efficiency and durability of bio-mimetic textile materials. This specialization addresses modern global challenges related to sustainable production, energy efficiency, and material functionality, offering significant potential for both scientific and commercial development.

Conclusion

Professional development in the era of globalization requires continuous learning, adaptation to new conditions, and openness to international collaboration. Studying at Riga Technical University in Clothing and Textile Technology provided me with fundamental knowledge, practical skills, a global industry perspective, and international professional contacts, paving the way for future career growth.

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