

Personal Information

Surname: **Tien**
First Name: **Sean Saul**
E-Mail: seanxtien@gmail.com



Summary

A versatile and resourceful individual with a background in materials science and hands-on experience in chemical laboratories and manufacturing environments. Characterized as an enthusiastic, insightful and high-energy thought leader who inspires teamwork and open collaboration through excellent communication.

Competencies include:

- Communicative, team-oriented, confident and self-driven
- Fast learner & establishes in-depth understanding of different subjects
- Thrives in a fast-paced environment and can quickly adapt to unfamiliar situations
- Uses exact and well-organized working methods as to meet project deadlines
- Hands-on experience working in a manufacturing environment, chemical laboratories, planning and conducting experiments for the development and characterization of manufacturing processes and materials including metals, ceramics, polymers and composites.

Professional Experience

07/2022 – 09/2023

Junior Process Engineer

Sensirion AG

- Development and implementation of manufacturing processes for specialized sensor goods in a production environment
- Coordination of R&D activities on process level within the scope of several simultaneous projects
- Acquirement, testing and qualification of production equipment
- Close collaboration with R&D Scientists, Project Managers, other Process Engineers, Process Integration Managers, Operations

07/2020– 07/2022

Service Staff/ Cashier

PutPut Takeaway

06/2021 – 07/2021

Project Intern

FenX AG

- Rheological Analysis of ceramic based slurries

11/2018 – 07/2019

Process Development Intern

Manufacturing Engineering, Sonova AG

- collaborating with process engineers to optimize introduce manufacturing processes essential to the production of hearing aid devices and cochlear implants
- analysis and testing of surface coating materials and adhesives

03/2018 – 05/2018

Teaching Assistant

Praktikum IV Lab Course

Dept. of Materials, ETH Zürich

- supervising students in their 4- semester conducting experiments in a chemical laboratory
- assist students in developing exact scientific working methods and key skills in experimental planning

10/2017 – 12/2017

Laboratory Assistant of Dr. Kemal Celebi

Research Group for Polymer Chemistry

Dept. of Materials, ETH Zürich

- synthesizing graphene-oxide based membranes for gas-permeation experiment

Education

09/2019 – 04/2021

Master of Science (MSc) in Materials Science ETH Zürich

- Master Thesis: Nanocellulose-Based Gel Polymer Electrolytes for Sustainable Sodium-Ion Batteries
Grade: 6 (highest grade in Switzerland)

09/2015 – 10/2019

Bachelor of Science (BSc) in Materials Science ETH Zürich

- Bachelor Thesis: Polynuclear Iron(II) Complexes with 4-Amino-1,2,4-Triazole Grade: 6 (highest grade in Switzerland)

08/2010 – 06/2014

Swiss Federal Maturity (High School Diploma)
Alte Kantonsschule Aarau

09/2011 – 07/2012

High School Exchange Year in China
Tongshenghu International School Changsha

Publications

N. Mittal, S. Tien, E. Litzundia, M. Niederberger, Hierarchical Nanocellulose-Based Gel Polymer Electrolytes for Stable Na Electrodeposition in Sodium Ion Batteries, Small 2022, 210718

Extracurricular Activities

10/2023 – 04/2024

KAI Japanese Language School

10/2014 – 08/2015

Completed mandatory service in the Swiss Army (DD)

Languages

English:

Native/ Bilingual proficiency

German:

Native/ Bilingual proficiency

Chinese:

Native/ Bilingual proficiency

French:

Intermediate proficiency

Japanese:

Elementary/Intermediate proficiency

ICT- Knowledge

MS Office:

Proficient

MATLAB:

Proficient

Python:

Elementary

Confluence:

Elementary

LaTeX:

Proficient

Adobe Illustrator:

Intermediate

References

Franziska Brem, Head of R&D Packaging, Sensirion AG
+41 44 306 40 00
franziska.brem@sensirion.com

Prof. Dr. Markus Niederberger, Dept. of Materials, ETH Zürich
+41 44 633 63 90
markus.niederberger@mat.ethz.ch