Bjørn Funch Schrøder Nielsen

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EDUCATION

BSc. General Engineering - Cyber Materials Denmark | Sep 2019 - Jul 2022
Technical University of Denmark

MSc. Physics and Nanotechnology - Nanosystems Denmark | Sep 2022 - current
Technical University of Denmark
Relevant Course Load: Graphene and other 2D materials, Advanced micro- and nanofabrication technology, Electron microscopy for materials science, Nanosystems engineering, Advanced fabrication of micro- and nanostructures.

ABOUT ME

I am 24 years old and study to become a Master of Engineering (cand.polyt) in nanosystems. The studies are primarily theoretical in nature, and I therefore seek to consolidate my knowledge with practical experience.
I am always open to learn more, whether that be new theory, a new method of approach or familiarizing myself with emergning tool, as I strive to be a more complete engineer, with a foot in each bucket. I am eager to further bridge the gap between theoretical knowledge and practical application, and get an exciting glimpse into new fields of research.

EXPERIENCE

ALM. BRAND GROUP | Data and Market Analyst for commercial lines | Sep 2022 - Jan 2024

- Built the proprietary tool that generated and managed Alm. Brand's market quantification and generation for Commercial and Farming markets.
- Later created a similar analysis program for Codan Insurance for the small- and mid-size market.
- In charge of performance-analysis project for data-suppliers for Alm. Brand, resulting in a change of vendor.
- Personally tasked with creating and overseeing exception-policy (high-risk) portfolio reporting tool by the president of commercial lines.

TECHNICAL UNIVERSITY OF DENMARK | Research Assistant and Contributor | Jan 2022 - Jul 2022

- Participated in an international collaboration to advance cleanroom and nanotechnology light-sensing fabrication.
- Co-designed a fabrication-process for periodic nanoscale gratings used for biological sensors.
- Fabricated and optimized aforementioned biosensor nano-structures.
- Collected and performed statistical analysis on data to demonstrate reproducible.
- Co-authored academic paper on the biosensor nano-structure in an international scientific journal.

DANISH STUDENT ASSOCIATION FOR ROCKETRY | Embedded Software Engineer | Dec 2021–Aug 2022

- Co-responsible for in-flight detection and measurement units.
- Programmed and tested multiple embedded controllers and sensors.
- Worked on a technical solution to reset on-board controllers.
- Co-Responsible for implementation of centralized multi-request handling.

SKILLS

Programming Languages: Python, C++, SQL, SAS , MatLab, r.
Software: Git, RDBMS, PowerBI, Excel, Maple.
Personal Achievements: Copenhagen half-marathon (2017, 2018, 2019), Copenhagen Marathon (2019).
Publication 10.1021/acsanm.3c01997, ACS Applied Nano Materials — 2023, Volume 6, Issue 13, pp. 12364-12371