Age:	24
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Morten Schack Møller-Kristensen

Optical Engineer

Ambitious and curious engineer with great interest in optical systems and experimental investigations of system dynamics. With a strong drive for creating an interplay between theoretical and experimental work, I see myself as an asset in a R&D or test-environment. My ability to bring optical concepts from the drawing board to working prototypes will be applicable in many companies. Quickly understanding and applying new knowledge is one of my key strengths as an engineer.

Experience

2018- Development Engineer at SHUTE Sensing Solutions ApS

- Responsible for production of polymer optical fiber sensing components and performance test of different sensing applications. I am in close collaboration with the development team and take on many difficult challenges in the lab, including further development of production and test setups.

2011 Summer job as a packaging assistant at a butchers shop (Slagter Theilgaard, Esbjerg)

- Operated advanced packaging machinery while learning to work structured and efficiently. Cooparated with numerous colleagues to ensure a fast workflow with no errors.

Education

2015–2017 **Master of Science in Photonics Engineering, Technical University of Denmark.**
Grade: 9.7/12

2012–2015 **Bachelor of Science in Physics and Nanotechnology, Technical University of Denmark.**
Grade: 7.0/12

Programming capabilities

Matlab	Very Experienced
Python	Experienced
LabVIEW	Experienced
LaTeX	Experienced
C++/C#	Completed introductory courses
R	Beginner
UNIX	Beginner

Languages

Danish (Fluent)

English (Fluent)

German (Novice)

Major projects

Spring 2017	**Master thesis: Four-wave mixing for optical phase conjugation** The goal of the project was to characterize and estimate the conversion efficiency of FWM in highly non-linear fibre by the use of simulations and experiments, for use in OPC-systems. For reference, contact Michael Galili, DTU Department of Photonics. Grade 12/12
Spring 2015	**Bachelor thesis: Fabrication and white light profilometry of spherical mirrors for microcavities** The project revolved around building an effective 3D-scanner using a Mach-Zender interferometer with variable pathway length, controlled by LabVIEW and Python scripts. For reference, contact Jonas Schou Neergaard-Nielsen, DTU Department of Physics Grade 10/12

Academic accomplishments

2017	Lab assistant for Mads Lillieholm during his work on a scientific paper (Paper @ `http://bit.ly/2s888El`)
2017	Completed course on Experimental Quantum Mechanics (See newspaper article @ `http://bit.ly/2oKYeVq`)

Additional personal information

2014-2018	Cashier of dormitory kitchen
2013	Acquired drivers license

Leisure interests

Esports enthusiast and amateur player

Guitar playing

Running (Copenhagen Marathon 2014, 3h:37m)

Avid badminton player

I like to spend time with my girlfriend and friends, socializing and enjoying the small things in life. I also enjoy attending Esport tournaments as a spectator, while also playing on an amateur level. I regularly challenge myself by learning new technical skills in my free time, such as web-development or technical sales techniques.