

Emlyn Arturo Stephens

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EDUCATION

TECHNISCHE UNIVERSITEIT DELFT

| MSc APPLIED PHYSICS
September 2020 - present
| Delft, Netherlands

TECHNICAL UNIVERSITY MUNICH

| MSc IN ELECTRICAL AND
COMPUTER ENGINEERING
September 2019 - September 2020
| Munich, Germany

TECHNISCHE UNIVERSITEIT DELFT

| MSc ELECTRICAL ENGINEERING,
EXCHANGE STUDENT
September 2019 - August 2020
| Delft, Netherlands

TECHNICAL UNIVERSITY MUNICH

| BSc IN ELECTRICAL AND
COMPUTER ENGINEERING - 1.9
October 2014 - August 2019
| Munich, Germany

UNIVERSITY OF STRATHCLYDE

| BSc IN ELECTRONIC AND
ELECTRICAL ENGINEERING,
EXCHANGE STUDENT
September 2017 - December 2017
| Glasgow, Scotland

COURSEWORK

GRADUATE

Machine Learning
Quantum Algorithms
Quantum Communication &
Cryptography
Quantum Hardware
Quantum Information
Electronics for Quantum Computation
Modelling of Superconducting Devices

UNDERGRADUATE

Algorithms & Data structures
Computer Engineering
Introduction to Economics

SKILLS

PROGRAMMING

Proficient
QX Simulator • Ms Office • Matlab
• Python • Latex • Git
Basics
C • C++ • Julia • SONNET • Gmsh

EXPERIENCE

INSTITUTE FOR MEASUREMENT SYSTEMS AND SENSOR TECHNOLOGY, TUM

| TUTOR BASIC LABORATORY COURSE: ELECTRICAL ENGINEERING (EI)
December 2018 – August 2019 | Munich, Germany
Tutoring and teaching engineering students on the usage of oscilloscopes and its use in simple circuits.

CHAIR OF OPTIMAL CONTROL, CENTER FOR MATHEMATICAL SCIENCES, TUM

| TUTOR MATHEMATICS PREPARATION COURSE
September 2018 – October 2018 | Munich, Germany
Tutoring and teaching engineers in real analysis and linear algebra before they start with their Masters degree in educational teaching.

CHAIR OF DATA PROCESSING, TUM | LEADER OF IMAGE-PREPROCESSING GROUP

April 2017 – July 2017 | Munich, Germany
Leading the development and implementation of Algorithms used in the pre-processing of a Deep Learning Image Classifier in a deep learning project using python.

KDM EMPRESAS | INTERN

August 2012 – August 2012 | Las Condes, Chile
Assisting the Chief-engineer with various assignments, working in close collaboration with the ministers of Chile.

RESEARCH

ASSISTANT PROFESSORSHIP COMPUTATIONAL PHOTONICS

| BACHELOR THESIS | 1.0 (HIGHEST ACHIEVABLE GRADE IN GERMAN GRADING SYSTEM.)
April 2019 – August 2019 | Munich, Germany

- Finding the theoretical description of a circuit implementation of a tunable composite Right/Left Handed Metamaterial (RLHM), both classical as well as quantum.
- Derivation of the Lagrangian, Hamiltonian, its dynamics and the Hamilton Operator.
- Finding a suitable Master equation.

ASSISTANT PROFESSORSHIP COMPUTATIONAL PHOTONICS

| ENGINEERING PRACTICE
September 2018 – November 2018 | Munich, Germany

- Research in the field of negative index metamaterials, circuit theory as well as circuit Quantum Electrodynamics (cQED).
- Derivation of simpler circuits involving Josephson Junction via Lagrange/Hamilton formalism.

SPOKEN & WRITTEN

Native fluency: German • English • Spanish
Reading fluency: French • Dutch