Kerim Kiliç

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Education

Universitat Politècnica de Catalunya - BarcelonaTech — **Barcelona, Spain**
Master of Science in Technology and Engineering Management (GPA 8.9 of 10.0) — Sept. 2021 - Feb. 2023

University of Liverpool — **Liverpool, the United Kingdom**
Erasmus Exchange - Electrical Engineering and Electronics Department — Sept. 2019 – Feb. 2020

The Hague University of Applied Sciences — **Delft, the Netherlands**
Bachelor of Science in Electrical and Electronics Engineering (GPA 7.9 of 10.0) — Sept. 2016 – June 2020

Working Experience

Clarivate — **Barcelona, Spain**
Cloud Operations Engineer — Sept. 2022 – present

- Designing cloud tools to deploy infrastructure and automate and optimize cloud processes across the entire organization.
- Cloud tools: Amazon Web Services, Azure Active Directory, Terraform
- Scripting tools: Python, Bash, PowerShell

Nowi — **Barcelona, Spain**
Data Analyst — Nov. 2021 – Aug. 2022

- Analyzing marketing and CRM data for business intelligence (BI).
- Tools: Git, R, Python, SQL
- Using Google Analytics API, HubSpot API, and LinkedIn API to extract marketing and CRM data.
- Creating dashboards, reports, and presentations with analyzed data using R Markdown language.

Application Engineer — *July 2020 – Nov 2021*

- Designing mixed-signal electronics and PCBs for proof of concepts, client-related projects, and internal demos.
- Designing ultra-low power, solar and battery powered embedded hardware for IoT (BLE, NB-IoT, LTE-M) using Nowi's power management products.
- Validating and verifying designs, post-manufacturing and post-assembly, with bench measurement tools. Performing application level post silicon bench verification.
- Collaborating with CEO and CCO for technical analysis, advice, and support in strategic projects.
- Conducting feasibility studies for strategic partners and clients.
- Creating technical documentation to support internal teams, clients, and partners.

Momo Medical — **Delft, the Netherlands**
Electrical Engineer — Feb. 2019 – Sept. 2019

- Designed embedded and mixed-signal electronics and multi-layer PCBs conform to Medical Electrical Equipment, Radio Emission Directive, and Machinery Directive standards.
- Designed electronics and multi-layer PCBs for the Momo BedSense, a class I certified medical device focussed on patient monitoring and pressure ulcer prevention, launched in August 2019.
- Validated the design of the electronics of a class I certified medical device with Electromagnetic Compatibility (EMC) and Radio Emission Directive (RED) tests at a notified body.
- Managed the production and logistics of PCBA batches for sales and pilots, and maintained relations with overseas PCBA manufacturing partners.
- Created technical documentation and assessed risk management for the electronics of a class I certified medical device.

Inrada — **Schiedam, the Netherlands**
Electronics Designer — June 2018 – Aug. 2018

- Designed the electronics and PCBs of products for Lead-Crystal battery balancing and monitoring for an energy autonomous building complex project based in Thierrens, Switzerland.
- Tasks included: component selection, schematic design, PCB design, layout, and design verification.

Internship Experience

Nowi **Feb. 2020 – June 2020**
Graduate Intern, Bachelor Delft, the Netherlands

- Bachelor thesis internship focussed on photovoltaic and piezoelectric energy harvesting for low-power IoT devices, and smart wearables
- Internship included characterizing solar energy, vibrational energy, and human motion walking energy in relation to the consumption of Bluetooth Low Energy (BLE)
- Design and validation of system incorporating Bluetooth Low Energy (BLE) powered by miniature solar cells, and piezoelectric elements for vibrational and walking energy harvesting
- Bachelor thesis titled: "Photovoltaic and piezoelectric energy harvesting for low-power IoT applications" was graded a 9.0 of 10.0

Momo Medical **Nov. 2018 – Feb. 2019**
Intern, Bachelor Delft, the Netherlands

- Redesigning the PCBs and electronics of a medical device focussing on pressure ulcer prevention conform to medical electromagnetic compatibility standards
- Internship included analysis of previous design, complete redesign of the system according to medical electrical equipment standards, and validation using using electromagnetic compatibility (EMC) measurements (EN-60601) at a notified body Medical Devices in Woerden, the Netherlands

Mapper Lithography **Aug. 2018 – Nov. 2018**
Intern, Bachelor Delft, the Netherlands

- Redesigning the electronics of an optoelectronic system focussing on water detection in an electron-beam lithography machine uing MID-IR radiation and reflection on semiconductor wafers
- Internship included analysis of previous design, redesign of the active analog filtering stage, and validation using simulations and prototype measurements with semiconductor wafer monster

Certificates

January 2021 EIT Digital: Architecting Smart IoT Devices
April 2019 IELTS British Council: IELTS Academic English Certificate
March 2018 Lean Six Sigma - Yellow Belt

Skills

Languages: Dutch (Native), English (Bilingual), Turkish (Limited working proficiency)
Programming languages: R, RMarkdown, Python, bash, PowerShell, Terraform, SQL, Embedded C/C++, LaTeX
PC Tools: Altium Designer, SPICE simulators, Git, SVN, Microsoft Office, Linux, Windows
Lab: Soldering (SMT and THT), Oscilloscope, Power Supply, Multimeter, Function Generator, Energy Analyzer
Technical: PCBA Design, Schematic Design, Analog/Digital Circuit Design, Microcontrollers, Sensors