René Bloch Brandbyge · Electronics Engineer · Odense, Denmark · rene2982@hotmail.com · +45 61 36 46 67

René Bloch Brandbyge CV

▷ Status	Graduate, cand.polyt in Electronics
▷ Skills	MATLAB, KiCad, Altium, C, HDL, Inventor, PLECS, PSPICE, Excel
▷ Interests	Formula 1, Electric Vehicles, Sports, Space Exploration
▷ Activities	Football, Running, Music, Hiking

Summary

I am an electrical engineer, with a particular interest in power electronics. I am passionately pursuing a career to be at the forefront of inventing new technologies for a renewable future. I am constantly seeking for opportunities to broaden my knowledge by learning and sharing experiences. I love to work together with people who share my passion for always doing their best to create the newest, high-performance solutions, which is why I have chosen to spend the majority of my spare time working on the Formula Student project.

Professional and work-related Experience

03/22 - 08/22	**Electronics Engineer**	NEWTEC Engineering
	≫ Hardware design, layout and testing for the development of new technology.	
04/22 - 01/23	**Student Worker**	Center for Industrial Electronics
	≫ Assisting with Hardware design, PCB-layout and ordering components, using Altium Designer on the HiCOMMID project.	
02/20 - 07/20	**Intern**	Siemens Gamesa Renewable Energy
	≫ Electrical Engineer in R&D - department. Analyzing data from tests, using tools, such as MATLAB, and writing reports to customers. Design overview documents in order to distribute knowledge to other departments.	
10/13 - 10/17	**Part-time Employee**	Bilka Odense Bistro
	≫ I began as a youth worker washing dishes, and when I turned 18 in 2015, I was offered a job as a part-time employee serving food. Not long after I became the closing manager of the bistro on my shifts.	
08/16 - 08/17	**Delivery man/Handyman**	Flügger Farver, Odense
	≫ I was delivering paint for Flügger Farver, Blangstedgårdsvej in Odense to business clients all over Funen. I also helped take care of daily restocking and maintenance.	

Education

01/21 - 01/23	**MSc in Engineering - Electronics**	University of Southern Denmark
	≫ Specializing in power electronics. Isolated and non-isolated DC-DC converters, thermal design, power loss, transformer calculations and parasitic components. State Space modelling, Optimal filter design, embedded systems etc.	
01/17 - 01/21	**B.Eng. Electrical Power Engineering**	University of Southern Denmark
	≫ Thesis: Test setup including PMSM and inverter, that is controllable, using MicroLabBox and dSPACE package for MATLAB and Simulink.	
07/19 - 11/19	**Study Abroad**	Swinburne University of Technology
	≫ A semester studying abroad in Melbourne, Australia. Courses included: Electrical Machines, Power Electronics and Management.	

Volunteer work

09/17 - 01/23	**Party planner**	SIF, Fraktalet
	≫ A member in Fraktalet, Party committee for engineers. Arranging arrangements for +700 people, finding location, order equipment and other, make PR etc.	
02/20 - 12/22	**Team Captain**	SDU-Vikings
	≫ Keeping track on deadlines, distributing work and ensuring the project is moving forward. Help designing and building electronics system of the car, mostly power electronics.	
09/19 - 02/20	**Power Electronics Engineer**	Team Swinburne
	≫ Designed and build the charger for the car and helped with production, testing and troubleshooting, both mechanical and electrical.	
01/19 - 09/19	**Power Electronics Engineer**	SDU-Vikings
	≫ Made the Charger for the car and helped with tasks, such as cable management, battery assembly, PCB soldering etc. Both mechanical and Electrical, design and/or production, implementation, test and troubleshooting.	
01/18 - 09/19	**Carsberg contact**	University of Southern Denmark, SIF
	≫ Fraktalet, Party committee for engineers.	
01/18 - 09/19	**Team Coordinator**	SIF
	≫ Arranging the the volunteers teams for Tinderbox, that SIF provided.	
09/18 - 02/19	**Vice-president**	SIF, Fraktalet
	≫ Making sure that planning for events were coordinated and executed in time. Working within and with SIF in order to coordinate events and budgets, that Fraktalet had to keep.	

Awards and honours

06/16	**Scolarship**	Odense Tekniske Gymnasium
	≫ Scholarship for participation and my engagement at Young Scientists.	
08/15	**Topsøe Innovation Challenge**	Young Scientists
	≫ Award for most innovative idea within the field of chemistry and biology.	
08/15	**DTU Challenge - Engineer the future**	Young Scientists
	≫ The most innovative idea with the largest potential.	