Alois Klink

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37 Berkeley Close, Southampton, SO15 2TR, United Kingdom
Nationality: German/New Zealander

Third Year MEng Electronic Engineering with AI student. Talented in Problem Solving/learning quickly, especially in Programming, which led to an Honorable Mention in IBM's MtM 2015. Skilled and experienced at organizing and modularizing/integrating small team projects. Currently studying Machine Learning and Computer Vision.

Education:

June 2016 — **University of Southampton**
MEng Electronic Engineering with AI Second Year

- Average 63.8
  - Digital Systems & Signal Processing: 75
  - Control & Communications: 71

June 2016 — **JP Morgan Machine Learning Workshop**
Involved learning how to use Machine Learning algorithms in Python.

June 2015 — **University of Southampton**
MEng Electronic Engineering with AI First Year

- Average: 74.5
  - Programming: 91
  - Advanced Programming: 75
  - Digital Systems and Microprocessors: 88

Work Experience:

June 2016 to Sept 2016 — **Intern at Airbus Defence and Space Friedrichshafen**
I worked on the on-board software of the "FLP Testbench" project, a testbench for a small-satellite affordable platform. My work mainly consisted of porting the on-board software to a newer dual-core on-board computer, including adapting the code to use asymmetric multiprocessing. I also upgraded and tested the code with the in-development version of RTEMS 4.11, and tested symmetric multiprocessing.

Project Experience:

March 2016 — **Designed/Built a web controlled ball robot**
Robot was controlled via a JavaScript webpage connected to Python on a Raspberry Pi
Accelerometer/GPS data and motor status could be seen on the webpage.

Feb 2016 — **Part 3 Honorable Mention of IBM's Master the Mainframe Contest 2015**
Part 2 Prize Winner as well.
Involved programming and testing/debugging mainframe programs

May 2015 — **Implemented and built a PID controlled boost converter.**
Control software was programmed with C on an embedded device.
Designed a GUI for viewing statistics/changing settings on desktop computer, which then communicated via UART to the control circuit.

Skills:

Programming

- C, C++, MATLAB, Java, Python, JavaScript (Embedded Programming, GUIs, OOP, Multi-threading)
- Windows, Linux, Bash, Embedded, and Web Applications
- Git, SVN, Eclipse, Doxygen, and NetBeans experience
- SystemVerilog (Hardware Description Language)