

Jack Halford



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EDUCATION

42 programming school - Paris

08/2016-present



- C (C99 standard)
- C (C99 standard)Unix and POSIX standards
- using git as a team
- Shell scripting
- Rewrite of the libc library

ENS Cachan - B.Sc. in Physics

09/2015-06/2016



- Quantum mechanics
- Special relativity
- Statistical physics

- Computational physics (fortran)
- Optics, lasers, electromagnetism
- Mathematics : Complex analysis

2 year preparatory course (PTSI - PT) Lycée Turgot Limoges

09/2013-06/2015



- Mechanical engineering basics
- Automatic control theory, Signal processing
- Classical physics
- Mathematics (real analysis, linear algebra, probability theory)

Work experience

IMPMC¹ - Paris

05/2016-06/2016



- 5 week intership in a solid state physics lab
- Tight-binding modeling of rhombohedral graphene.
- Use of fortran lapack library to produce high performance calculations.
- Improving the understanding of the conduction properties of graphene in exotic conditions

PROJECTS

Shell

Leading a team of 5 students to develop a fully fledged shell built in C, including shell scripting, job control. Next to development, I am responsible for management of the team.

Coilgun

Built a coilgun as an undergaduate project, alongside a complete simulation with Matlab Simulink to adjust parameters for maximum efficiency. Final version shot 50g steel bullets at 120km/h.

SKILLS

Very good C, fortran

Used daily vim, git, tmux, Makefile

Good git, LATEX 2

Prior exposure Matlab, Django, PIC32

Intermediate Python, Arduino

Systems OS X, Linux

^{1.} Institut de minéralogie, de physique des matériaux et de cosmochimie

^{2.} see CV. beware: recursion