

# Yann HERKLOTZ

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## EDUCATION

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OCT 2015-JUL 2019	<b>MENG ELECTRONIC AND INFORMATION ENGINEERING, IMPERIAL COLLEGE, London</b> Notable Courses: Type Systems for Programming Languages, High Level Programming, Language Processors, Complexity, Graphics, Machine Learning, DSP, Digital Electronics, Mathematics for Signals and Systems, Coding Theory Current Average: 75.45%
SEP 2013-JUL 2015	<b>INTERNATIONAL BACCALAUREATE, INTERNATIONAL BILINGUAL SCHOOL OF PROVENCE, Luynes, France</b> Courses: German SL (5/7), English HL (7/7), Geography SL (7/7), Physics HL (7/7), Mathematics HL (7/7), Chemistry SL (6/7). Overall: 41/45

## WORK EXPERIENCE

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JAN 2019-CURRENT	<b>Teaching Assistant for Language Processors at Imperial, London</b> Teaching assistant for the Language Processors course which teaches the fundamentals of Compilers.
SEP 2018-DEC 2018	<b>WebApp Design for INSPIRING GIRLS INTERNATIONAL, London</b> Development of a video sharing platform for female role models to inspire young girls.
OCT 2018-CURRENT	<b>Teaching Assistant for Computer Architecture at Imperial, London</b> Teaching assistant for the Computer Architecture course for 1 <sup>st</sup> and 2 <sup>nd</sup> year students at Imperial College.
APR-SEP 2018	<b>GPU Software &amp; Hardware Placement at ARM, Cambridge</b> Spent 3 months working in the Hardware Verification department and then moved to the Driver Development team.
OCT 2017-MAR 2018	<b>Teaching Assistant for Introduction to Programming at Imperial, London</b> Teaching Assistant for Introduction to Programming in C++.
JUN-SEP 2017	<b>GPU Hardware Verification Intern at ARM, Cambridge</b> Interned in the Verification Methodology team in the GPU department at Arm where I worked on a linting framework for the various test benches.
OCT 2016-JUN 2017	<b>Programming Tutor at TURINGLAB, London</b> During the weekend I worked as a tutor, teaching children from 11 to 16 how to program in JavaScript.

## AWARDS AND SCHOLARSHIPS

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JUL 2017	Engineering Dean's List, Year 2
SEP 2016	UKESF Scholarship
JUL 2015	Engineering Student of the Year

## LANGUAGES

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ENGLISH	Fluent
GERMAN	Mothertongue
FRENCH	Fluent

## UNIVERSITY AND PERSONAL PROJECTS

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Personal and university projects that I am currently working on. More projects can be found on [github.com/ymherklotz](https://github.com/ymherklotz).

OCT 2018-CURRENT	<b>VERIFUZZ: Final Year Project, Fuzz-testing Verilog Simulators</b> Currently working on my final year project for my MEng degree, which is writing a Fuzz-testing tool to test the output of Verilog simulators and make them more reliable.
APR 2017-JUN 2018	<b>YAGE: Yet Another Game Engine</b> <a href="https://github.com/ymherklotz/YAGE">github.com/ymherklotz/YAGE</a> 2D game engine designed to render many sprites every frame and supports an entity component system to make the creation of large game objects easier and promote separation of concern.
FEB-MAR 2018	<b>FMARK: F# Markdown compiler</b> <a href="https://github.com/ymherklotz/FMark">github.com/ymherklotz/FMark</a> Project for our High Level Programming module. Wrote a markdown compiler in F# using purely functional code to encourage code reuse and higher level functions that abstract away all similar code.
JAN-MAR 2017	<b>COMPILER: C89 to MIPS compiler</b> <a href="https://github.com/ymherklotz/Compiler">github.com/ymherklotz/Compiler</a> Project for our Language Processor module. The aim was to build a complete compiler in C++ using Flex and Bison which could generate MIPS code that could then run on our MIPS simulator.
OCT-NOV 2016	<b>MIPS CPU SIMULATOR</b> <a href="https://github.com/ymherklotz/MipsCPU">github.com/ymherklotz/MipsCPU</a> Project for our Computer Architecture course. This was about developing a MIPS CPU that would simulate the MIPS I instructions cycle accurately.

## TECHNICAL SKILLS

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Advanced	C, C++, Haskell, F#, Python, Clojure, git, Linux, Arch Linux, Emacs
Intermediate	Verilog, Xcelium Simulator, Altera

## INTERESTS AND ACTIVITIES

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Technology, Open-Source, Functional Programming, Game Engine Design, Compilers, Tennis, Basketball, Travelling