

# PASCAL LASNIER

St. Catharine's College, Cambridge, CB2 1RL

py@lasnier.com  
+44 7521 986848  
github.com/pylasnier

## EDUCATION

2024 – present	<b>Dept. of Computer Science &amp; Technology, University of Cambridge</b> (MPhil) Advanced Computer Science MPhil student		
2020 – 2024	<b>St. Catharine's College, Cambridge</b> (Undergraduate) Engineering, Class I BA (Hons) & MEng with Merit Aerospace and Aerothermal Engineering Mechanical Engineering		
2018 – 2020	<b>Richard Huish College, Taunton</b> (A-Levels) Mathematics (A*)      Computer Science (A*)      Physics (A*) Further Mathematics (A*)		

## PROFESSIONAL EXPERIENCE

- Siemens Cambridge Software Internship** | 2023 | C++, Rust (Wasm), TypeScript
- 12-week summer internship at Cambridge office;
  - Worked with dev tools team on integrating source control into VSCode extensions;
    - Implemented through an asynchronous client-server system in Rust using WebSockets.

## PROJECT EXPERIENCE

- MPhil Computer Science Project** (*Ongoing*) | 2024 – 2025 | HOL4
- Individual project for MPhil;
  - Building verified compiler for Scheme using CakeML.
- 4<sup>th</sup> year Engineering Project** | 2023 – 2024 | Python
- Individual project for MEng;
  - Achieved First Class;
  - Modelling of 1-D thermoacoustics networks.
- 2<sup>nd</sup> year Engineering Robot Project** | 2021 | Arduino C++ | [github.com/pylasnier/idp205](https://github.com/pylasnier/idp205)
- Software lead of six-person team group project to design an autonomous robot;
  - Task involved navigation within an arena to search and collect small dummies.
- A-Level Computer Science NEA** | 2019 – 2020 | C# | [github.com/pylasnier/functional-studio](https://github.com/pylasnier/functional-studio)
- Designed an explicitly simply typed pure functional programming language;
  - Developed an intermediate representation (IR) and interpreter for this language.

## ACTIVITIES AND INTERESTS

Computing	Linux (NixOS) user, command line-confident Programming: Rust, C(++), Haskell, C#, Python
Sports	Badminton (University Development Squad and college captain)
Extra-curricular	Duke of Edinburgh Award: Bronze (2019), Gold (ongoing)

Referees available on request