

# PASCAL LASNIER

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

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## 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

**4<sup>th</sup> year Engineering Project** | 2023 – 2024 | Python

- Individual project for MEng, achieved First Class;
- Modelling of 1-D thermoacoustics networks:
  - Mathematical analysis of complex thermodynamics problem, constructed as linear algebra system using finite differences and assumed partial solution;
  - Implemented as Python API to generate solutions from thermoacoustic configuration.

**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.

## EXTRA-CURRICULAR EXPERIENCE

**Captain of St. Catharine's College Badminton Club** | 2023 – 2024

- Ensured smooth-running of regular college training sessions;
- Fostered inclusive and competitive environment for players to develop and grow;
- Primary responsibility for club finances and competitive fixtures.

## SKILLS AND ACTIVITIES

**Computing**                      C(++), C#, Python proficiency; Fortran (CFD) experience

**Extra-curricular**            Duke of Edinburgh Award: Bronze (2017), Gold (ongoing)  
Volunteer at local library (Taunton)

**Referees available on request**