## Work Experience

WOIK EX	Jenence		
2022 - Present	<ul> <li>3D Editor Tools Developer – Huawei</li> <li>Responsible for the visual shader graph editor, the custom DSL developed on top of GLSL for creating</li> <li>Developed generic library components: reimplem algorithms, safe FileUrl/DirectoryURL/AnyURL type</li> <li>Developed an undo/redo system with composable</li> </ul>	g annotated reusable blocks lented std::optional type, range es	
2024	<ul> <li>Compiler Engineer &amp; Web Developer – Hylo – <u>Hylo</u></li> <li>Designed and bootstrapped a performant docum leading a team of 5 during our 2-month fulltime so</li> <li>Open-source contributor and active community not source contributor.</li> </ul>	nentation compiler for Hylo, oftware project at university	Ambrus Tóth A PL and tooling
2021 - 2022	<ul> <li>Web Developer – Amigos for Children Foundat</li> <li>A volunteering project in collaboration with Morga developing a gamified learning platform with a U</li> </ul>	an Stanley for designing and	enthusiast. ☑ ping@ambrus.dev ↓ <u>+36 20 2955 351</u>
2022 - 2023 Educatio	<ul> <li>Web Developer &amp; Team Lead – Learness – Hoble</li> <li>Designed and implemented an MVP of a collation</li> <li>Researched and experimented with distributed including CRDTs, OT models to support real time</li> </ul>	aborative flashcard app <b>ed systems</b> technologies	Achterom 26, 2611F Delft, Netherlands
2022 - 2025	<ul> <li>BSc Computer Science &amp; Engineering – Delft University of Technology, Netherlands</li> <li>Systems Specialization + Robotics Minor</li> <li>Achieving high grades besides part-time work &amp; social activities (GPA: 8.3/10)</li> <li>Board Member in a student dance association as commissioner of dance &amp; head of prog. committee</li> </ul>		
2022 - ∞	<ul> <li>Conferences – CppCon, C++Now, C++ On Sea, C++ Under The Sea</li> <li>Watched over 50 talks from various conferences on C++, systems programming and PL</li> <li>Volunteered at C++ On Sea and C++ Under The Sea, gave a lightning talk about HyloDoc</li> </ul>		
2016 - 2022 Skills	<ul> <li>Member &amp; mentor in the school robotics team, pre</li> <li>Awarded Medallion of Excellence for nationally or</li> </ul>	ekas Mihaly Secondary Grammar School in Budapest, Hungary Aember & <b>mentor</b> in the school robotics team, preparing students for informatics final exam Warded <b>Medallion of Excellence</b> for nationally outstanding performance <b>"aught</b> physics, electronics and programming in summer camps	
<ul> <li>Designing tes</li> <li>DevOps:, sett</li> <li>UX Design (F</li> <li>Proficient in C</li> <li>Svelte   Ar</li> <li>CSS   SCSS</li> <li>Qt/QML   C</li> </ul>	ust   Duthon   Scala	me king   Fusion 360 & 3D Printing	

Arduino | libopencm3 | C | C++ | FreeRTOS | VHDL

# Projects

#### 3D Raytracer from Scratch (C++)

- A raytracer with path tracing, BVH and bloom filter
- <u>Advanced Robotics Challenge 2020</u>
- Processeus Smart Thermostat
- Internal logistics system for my dance association
- <u>Tic-Tac-Toe<sup>2</sup></u> Game ⟨⟩ ▶
- Automatic Plant Watering System 🂔 🖾
- Postlang An Alternative Markup Language
- 3D Molecule visualizer & IUPAC name parser
- Room Finder (Web Scraper) </>
- Talio: Collaborative Task Management System JavaFX, Spring Boot, Websockets
- Assembly Game (In **Top 3** Games of the Year)
- Embedded Software Project Line Following Robot STM32, libopencm3, P-control algorithm

See more at ambrus.dev

Conference Paper Management Microservice

## Algorithmic Programming

International Informatics Olympiad in Teams - 7th

2611PP nds

- · Coding Tomorrow Cup 11th National
- Ericsson Programming Cup 2nd National

### Web Development

- · Code To Give 1st International
- Dusza Árpád Memorial Competition 2nd National
- UPC Future Makers **1st** National
- The Coolest Projects Dublin Future Makers Prize

### Physics

- Öveges József Physics Competition Ist National
- Creative Physics Competition Special Award National

## **Robotics and Programming**

- World Robot Olympiad 1st National Open Category
- World Robot Olympiad 5th Finals Open Category
- First Global Challenge 1st National Selection Match
- First Global Challenge Top 50 International Final
- World Robot Olympiad Friendship Invitational 2nd -
- International (Denmark) Open Category
- C3 Szabadfogású Számítógép Award National
- First Lego League 6th National
- First Lego League Poland 9th Middle-Europe Semi-Final
- National Robot Programming Competition 8th, 3rd