EOGHAN COLLINS

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EDUCATION

2023-2028 (Est. Graduation)	**BA/MA in Electrical and Electronic Engineering, 2nd Year**
University of Galway	**First Year Result:** First Class Honours (1.1)
	Expected Second Year Result: First Class Honours (1.1)
2021-2023	**Leaving Certificate**
	625 Points

EXPERIENCE

2024   Co-Founder and Chief Software Engineer (Patch 2024)
ForceField

- Selected as 1 of 33 in the 2024 Patch Youth Accelerator by Dogpatch Labs.
- Led business development with co-founders, deciding on impact detection sensors for sports
- Managed the startup team, balancing creative freedom with structured updates to ensure cohesion.
- Co-designed the sensor and software to ensure effective data acquisition, transmission, and analysis
- Developed novel WiFi-based mesh-network and data-transmission code to allow the efficient, lossless transmission of biometric data at long-ranges, allowing 6,000 datapoints/second to be transmitted, providing high-fidelity sensor data to the user
- The mesh network and WiFi approach also provided a range of over 100m for a single sensor and a theoretical range of over 1500m for a full hurling team in optimal conditions. This is opposed to competitors offering ranges of 18.28m with BLE approaches.
- Created the high-fidelity sensor at an estimated production cost of €35/unit
- Coordinated team to meet project deadlines, receiving positive feedback from players and coaches
- Presented the project to key stakeholders, including John Collison and Dogpatch Labs.
- For more details visit https://eoghancollins.com/technical#ForceField For programme info, visit https://www.joinpatch.org

2024   Operations and Communications Intern
PorterShed

- Authored blog posts and press releases leading to media coverage in local news stations.
- Collaborated with the team to manage major events, including a GenAI Hackathon (50+ developers) and an entrepreneurship workshop (30+ researchers).
- Created a chatbot for a hackathon used by 50+ participants.
- Handled daily operations, including secretarial work and appliance testing for compliance.

2024   Electronics Course Assistant - Youth Academy
University of Galway

- Led support for 16 primary students (ages 9–13) in a 6-week Saturday electronics course.
- Coordinated with instructors, fellow assistants, and Youth Academy organizers
- Managed classroom setup, attendance tracking, material transfers, and computer configurations.
- Taught and troubleshot electronic circuits, microprocessor programming, and robotics
- Organized weekly bonding events to ensure a positive learning environment.
- Maintained safety protocols and clear communication with parents during sign-in/out.

2024 **Peer Leader | CÉIM Peer Assisted Learning**
University of Galway

- Led 9 sessions for 52 first-year engineering students, averaging 18 attendees per session, with a peak of 32.
- Covered key topics like mechanics, calculus, and MATLAB, tailoring content to student needs via polls and gamified activities.
- Collaborated with two co-leaders to design student-focused sessions, leveraging calendars, polls, and gamified activities like quizzes and competitions to boost engagement.
- Used tools like WhatsApp and Kahoot for communication and delivery, and shared insights in biweekly debriefs to refine sessions.

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2024 **Mathematics Tutor**
Superprof

• Delivered targetted maths lessons, primarily at a Leaving Cert Level
• Received an average 5 star review across 22 lessons, with positive feedback from students

SKILLS

Communication Skills

Public Speaking: Delivered impactful presentations to investors, stakeholders, industry experts, and peers, alongside performances given at Ailbhe Garvey's School of Speech and Drama.

Content Creation: Produced engaging blogs, press releases, and technical documents.

Interpersonal Communication: Facilitated effective team collaboration and client interactions.

Leadership Skills

Team Management: Led teams effectively and through example, ensuring project alignment and timely delivery.

Project Leadership: Drove projects from concept to execution.

Strategic Decision-Making: Key decision-maker in product design and business strategy.

Mentorship: Guided junior team members and students, enhancing their skills.

Conflict Resolution: Mediated team conflicts, maintaining productivity and cohesion.

Languages

Fluent in Spanish

Programming
- **Frontend:** React, HTML, CSS, Next.js, JavaScript/TypeScript
- **Backend/Misc:** C, C++, Python, JavaScript/TypeScript, Electron, MySQL
- **Integrated Systems:** Arduino, Espressif, ESP-Now