logitech

INTERNSHIP CERTIFICATE

We the undersigned, **Logitech Europe SA**, hereby certify that Ernesto Bocini , born on September 3rd 2000, has been employed by our Company as an **Engineering Intern, CTO** from August 19th 2024 to the 17th February 2025 at the Borel Innovation Centre (BIC), located in Lausanne, Switzerland. Logitech is a leading global provider of product solutions that connect people with the digital world. Logitech provides hardware and software for various computers, communication and entertainment platforms.

In his role as **Engineering Intern, CTO** Ernesto fully completed his project on predicting cognitive load on unseen subjects using EEG data, demonstrating both exceptional quality of work and performance. He showcased his strong research abilities when he conducted an extensive literature review on recent machine learning models applied to EEG data and provided valuable insights into existing methods. Ernesto displayed excellent programming skills, managing large datasets of complex data and large codebases. On his own initiative, he developed an innovative exploration interface for EEG data, reflecting his forward-thinking approach and long-term vision beyond the scope of his project. His work included benchmarking multiple machine learning models for cognitive load prediction, successfully validating them on baseline tasks and exploring their performances on task variations across multiple difficulty levels. Ernesto consistently demonstrated strong critical thinking skills by suggesting great research directions and next steps, all while working independently and requiring minimal guidance. His ability to communicate effectively and his willingness to engage with peers further enhanced the quality of his contributions, making him an invaluable team member.

Ernesto displayed strong research and critical thinking abilities and effective communication and collaboration. He also has excellent programming skills, particularly in Python, and vast knowledge of machine learning, He worked independently with minimal guidance and contributed valuably as a team member. Additionally, he demonstrated the ability to step outside his comfort zone and produce meaningful work. He has gained insights into EEG preprocessing techniques, feature extraction, and cognitive workload estimation, while his strong skills in Data Organization & Management have allowed him to structure and optimize large-scale datasets for improved accessibility and efficiency. Additionally, his exceptional problem-solving & adaptability skills have enabled him to overcome challenges related to data inconsistencies, model training, system integration, and a lack of computational resources.

Ernesto was always eager to receive feedback and discuss the next step. He was always prepared for meetings and provided meaningful updates. He was very pleasant to interact with, he has a positive and kind personality. He was always ready to help his peers and provide honest feedback on their work. It became very evident that he was a fantastic team player communicating effectively with both superiors and colleagues. As well as working well as a team he always worked well independently. He was fantastic at organising his own work while also remaining flexible and reliable for the team. His quality of work was always very good.

Throughout his internship, Ernesto demonstrated a strong work ethic. Ernesto has proven to possess all valuable qualities for a good employee and done great work on his project, so we can strongly recommend him to a future employer.

LOGITECH EUROPE SA

Jean-Michel Chardon
Head of Technology Innovation

Martina Steinkühler-Hettena

Martina Steinkühler-Hettena
People Partner - EMEA Region