## Subject: Internship Project Proposal

| Code Name | PTA_EN_2026-UNMECLE-0008564_26/02/2026 9.33.23 |
|---|---|
| Date | 26/02/2026 9.33.23 |
| Target | Master's Degree - Data Science |

### Host Institution

| Host Institution | STMicroelectronics srl |
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| Protocol | 2026-UNMECLE-0008564 |
| Protocol Date | 22/01/2026 |
| Country | Italy |
| City | Agrate Brianza |
| Address | via Camillo Olivetti 2, 20864 |
| Website | www.st.com |
| Employees Number | 12634 |
| Contant Person | Letizia Pavone |
| Phone Number | +39 3371456558 |
| Email | letizia.pavone@st.com |

## Project Supervisor

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| *Name and Surname* | Patrizia Bellitto |
| *Phone Number* | +39 3667628193 |
| *Email* | patrizia.bellitto@st.com |

## Internship Project Details

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| *Title* | Op-amp photo diode simulator inside eDesignSuite |

*Detailed Description:* The project will focus on the design and development of a new web application within the Signal Conditioning Design Tools section of eDesignSuite (https://eds.st.com)
-The student will be involved in:
-Front-end development (React.js)
-Implementation of the user interface using React.js, following component-based design principles
-Development of responsive pages and components (input forms, configuration panels, result views, tables, charts, etc.)
-State management and interaction with back-end APIs (data fetching, error handling, loading states)
-Contribution to the UX of the tool: layout, navigation, validation messages, user feedback on errors and computation progress
-Possible integration of data visualization libraries (e.g. charts) to display design results
-Back-end development (AWS Lambda)
-Design and implementation of serverless back-end functions using AWS Lambda
-Definition of REST APIs to support the new design workflow
-Integration with existing eDesignSuite services and data models
-Implementation of business logic and calculation flows related to signal conditioning design
-Basic monitoring and debugging of Lambda functions (logging, error handling)
-Design, integration & collaboration
-Understanding of the current eDesignSuite architecture
-Collaboration with the SW design team to refine requirements, user flows and data

structures
-Participation in design iterations based on internal feedback and testing
-Use of Git and standard software development workflows (branches, pull requests, code reviews, issue tracking)

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| *Topics* | Deploy in DEV environment (dev-eds.st.com) a first full-working version of the tool |
| *Reimbursement of Expenses (YES/NO)* | YES |
| *Refund Amount* | €1.000 |
| *Availability for Travel (YES/NO)* | NO |
| *Kind of employment* | Full time |
| *Duration in months (max 12)* | 1 |
| *Duration in hours* | 150 |
| *Internship Date Start* | 13/03/2026 |
| *Internship Date End* | 08/04/2026 |
| *Number of Open Position(s)* | 1 |

**Internship Skills**

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| *Required Skills:* | |
| *Other Skills* | |