



Mr. Manuel Hitz
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Archilogic AG
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April 30, 2024

Letter of Reference for Manuel Hitz

Manuel was employed by Archilogic AG from September 01, 2021 until April 30, 2024. He held the role as Frontend Engineer.

During his time at Archilogic, Manuel dedicated the majority of his capacity to the following responsibilities:

1. Main activity - take ownership of the existing *Editor web app* codebase and gradually improve it

- To avoid the same code snippets being used across several web apps, introduce an internal library for helper functions that contain no business logic: unit conversion, string formatting, color manipulation, etc.
- Do the same for business-specific components that are used by more than one app
- Rewrite the whole user interface (UI) by introducing the new design system developed in parallel by the frontend team. Ensure consistent spacing, colors, typography, and use semantic HTML
- Move towards a cleaner app architecture by compartmentalizing the code and abstracting the interactions with the drawing canvas and the data storage
- Rewrite the whole data layer by introducing Archilogic's new *Space Graph* data format developed in parallel. Accurately keep track of the code and features migration progress
- Swap out the 2D drawing mechanics, complete with an undo-redo system, that were also entirely rewritten with the introduction of the new data format
- Manage parallel development tracks during the introduction of the new UI (several months) and the migration to Space Graph (1 year). Both tracks getting active feature development, library updates and bug fixes
- Increase total unit test coverage from 10% to 60%



2. Other development activities:

- Add 2D drawing helpers: calculate and show distances between walls and/or assets; be able to select multiple elements by drawing a capture rectangle (“box multi-selection”); move and rotate a multi-selection; arbitrarily move the rotation center of a multi-selection; snap assets to other assets to ease furniture alignment
- Help rewrite the 2D wall drawing system: add several snapping behaviors; add wall connection helpers
- Develop a *Quality Control* plugin, replacing an existing web app, used internally by the data conversion team (i.e. the team digitizing floor plan images)
- Migrate the *Quality Control* plugin to the *Space Graph* data format
- Migrate the *Pro Toolbox* plugin to the *Space Graph* data format. This plugin is also used internally by the data conversion team to ensure consistent data

3. Improving best practices in the frontend developers team by:

- Writing better structured unit tests
- Issuing smaller and well commented and documented pull requests, for easier and more guided code reviews
- Enforcing code consistency via linting and automated formatting via pre-commit hooks
- Doing at least weekly releases of the *Editor app*
- Reviewing pull requests within 24 h of them being opened to avoid team members from getting stuck
- Introducing git rebasing to guarantee a cleaner git history
- Committing to deliver what was agreed upon on a sprint/cycle (2 weeks)

We came to know Manuel as an engaged and reliable employee who could always perform his tasks to our complete satisfaction; besides being trustworthy, loyal, and committed, he consistently showed a high level of engagement and passion for his work.

Combined with his know-how, his eagerness and his curiosity, he was able to implement even complex tasks in an exemplary and independent way.

Manuel built strong professional relationships with all team members and was considered a valued and respected colleague. His receptiveness to feedback from both leadership and peers illustrated his commitment to continuous growth and his dedication to the company's success.

Manuel's contract with Archilogic was terminated, effective April 30, 2024, due to strategic reasons.



We would like to thank Manuel for the great contributions he has made and wish him all the best and continued success for his future career.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Frederic Schwarz', positioned above a horizontal line.

Frederic Schwarz
VP Engineering