

# GREENLED

The Light Side of Life



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Field of study	Mechanical engineering / systems engineering
Year of graduation	2019
Initial situation	Greenled is a Finnish company providing LED lighting solutions. The products are assembled manually in five assembly lines. A 5S system has already been implemented.
Task/objective	The main goal is to create a concept for the One-Piece Flow implementation. To do so, it's necessary to analyse the current work content and corresponding times. Additionally, automation possibilities shall be clarified, and an employee skills matrix created.
Results/Benefits	All goals could be reached. Multiple One-Piece Flow test runs have been carried out with the conclusion that it could be implemented without big changes. The lead time can be shortened significantly and the flexibility increases. The skills matrix is in daily use and most possibilities of partial automation turned out as not feasible or already in planning.