HASTLAYER
A LOMBIQ TECHNOLOGY

SUMMARY

SOLUTION/PRODUCT

Software is flexible; specialized hardware is extremely fast. So why not write software, then turn it into a computer chip?
This is what Hastlayer does: It transforms software into electronic circuits. The result is faster and uses less power. Software developers write and update code, and Hastlayer does the rest. No hardware skills required.

MARKET OPPORTUNITY

PROBLEM STATEMENT

Traditional software is slow and expensive to run, while coding native hardware is hard and expensive.

GAP ON THE MARKET

Using compute accelerators for High-Performance Computing (HPC) tasks is very complicated for .NET developers. They need to leverage other technologies, so basically abandon .NET if they have HPC requirements.

MARKET INFO

According to our research our the size of target market of .NET developers in the banking industry is 1.3 billion USD. However, Hastlayer may be applied in many different industry markets.

COMPETITIVE ADVANTAGE & USP

COMPETITION

Bitfusion

Xilinx SDAccel

Intel FPGA Open CL

On the contrary to the competition that lock their customers either to their cloud or hardware, Hastlayer supports developers working with devices of both leading manufacturers.

UNIQUE SELLING POINT

HPC for .NET developers with a lower barrier of entry than any other comparable solution.

KEY FIGURES & COMPANY MILESTONES

2012: first Hastlayer PoC.
2013: Lombiq founded.
2015: actual work on Hastlayer begins. Lombiq's first Fortune 500 client (Microsoft). At the end of the year Hastlayer's pre-alpha is first unveiled at the Imperial College of London's FPL 2015 conference.
2016: Hastlayer's first alpha version is unveiled at four conferences. Testing scientific computations with the Wigner Research Centre for Physics.
2017: Lombiq's third Fortune 500 client (Live Nation) and first US government client (the Smithsonian Institution).
2017-18: Hastlayer goes on a world tour of more than 50 conferences and meetups, starting with Microsoft's .NET Conf.
2019: Hastlayer's beta version suitable for industrial applications unveiled.

GEOGRAPHICAL FOCUS

North America and EU

TRACTION

Few dozen users who've tested the platform, 90 stars on GitHub

ANY OTHER RELEVANT OR IMPORTANT INFO

Main scientific partner: Wigner Research Centre for Physics

TEAM

Zoltán Lehóczky Co-Founder and Managing Director of Lombiq Technologies, Software Developer, Originator of Hastlayer

Benedek Farkas Co-Founder and Managing Director of Lombiq Technologies, Co-Founder of Hastlayer

Álmos Szabó Software Engineer
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Dávid El-Saig Software Engineer
Gábor Domonkos Software Engineer
Gábor Pór Software Engineer
István Germán Office Manager
Márk Bartha Software Engineer
Milán Keszthelyi Software Engineer
Paris Noble Business Development
Zoltán Horváth Graphic Designer

WE ARE SEEKING...

international partnerships
international market entry

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The test compares the performance of a Vitis platform Xilinx Alveo U250 FPGA to the host PC's performance on a Nimbix instance.

Speed advantage

Power advantage