

Have you ever **struggled** with...



**"Eureka!" moment**



**Time constraints**



**Complex debugging  
process**



# Our Solution:

Pocket size intelligence, unlimited potential

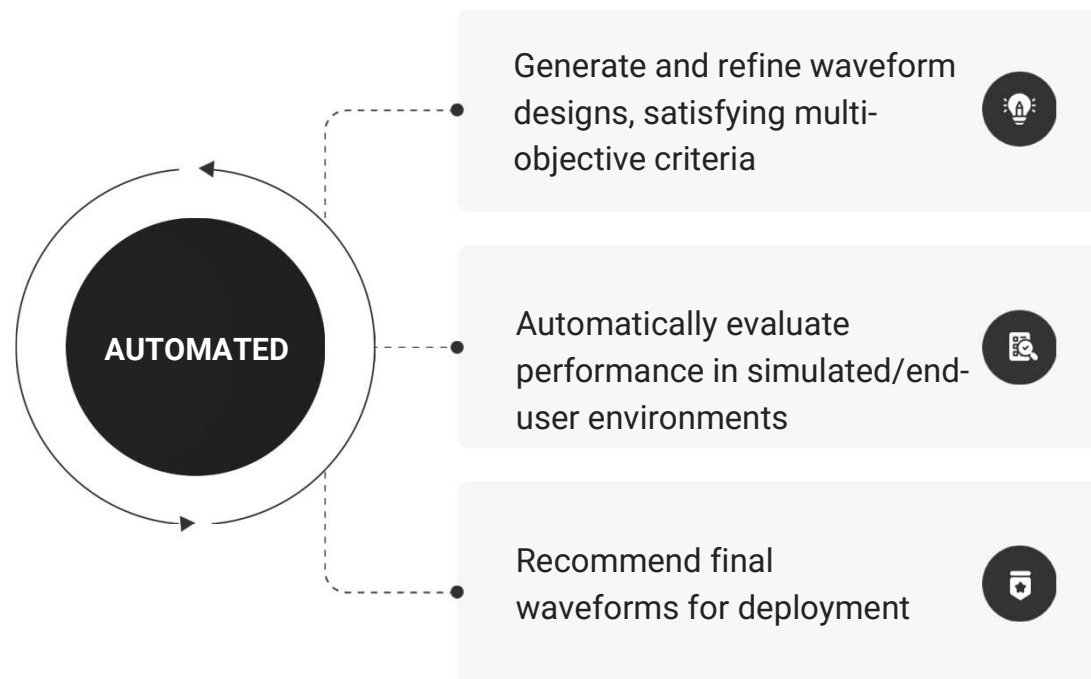


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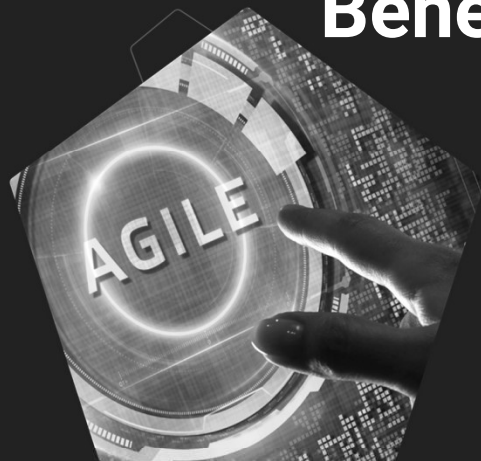
Leverage **Large Language Models** and **Evolutionary algorithms**

02

**Streamline and accelerate** generative waveform creation and deployment



# Benefits for **End-Gen Program**



**Rapid Waveform Design**



**Broad Applicability**



**Adaptive Optimization**



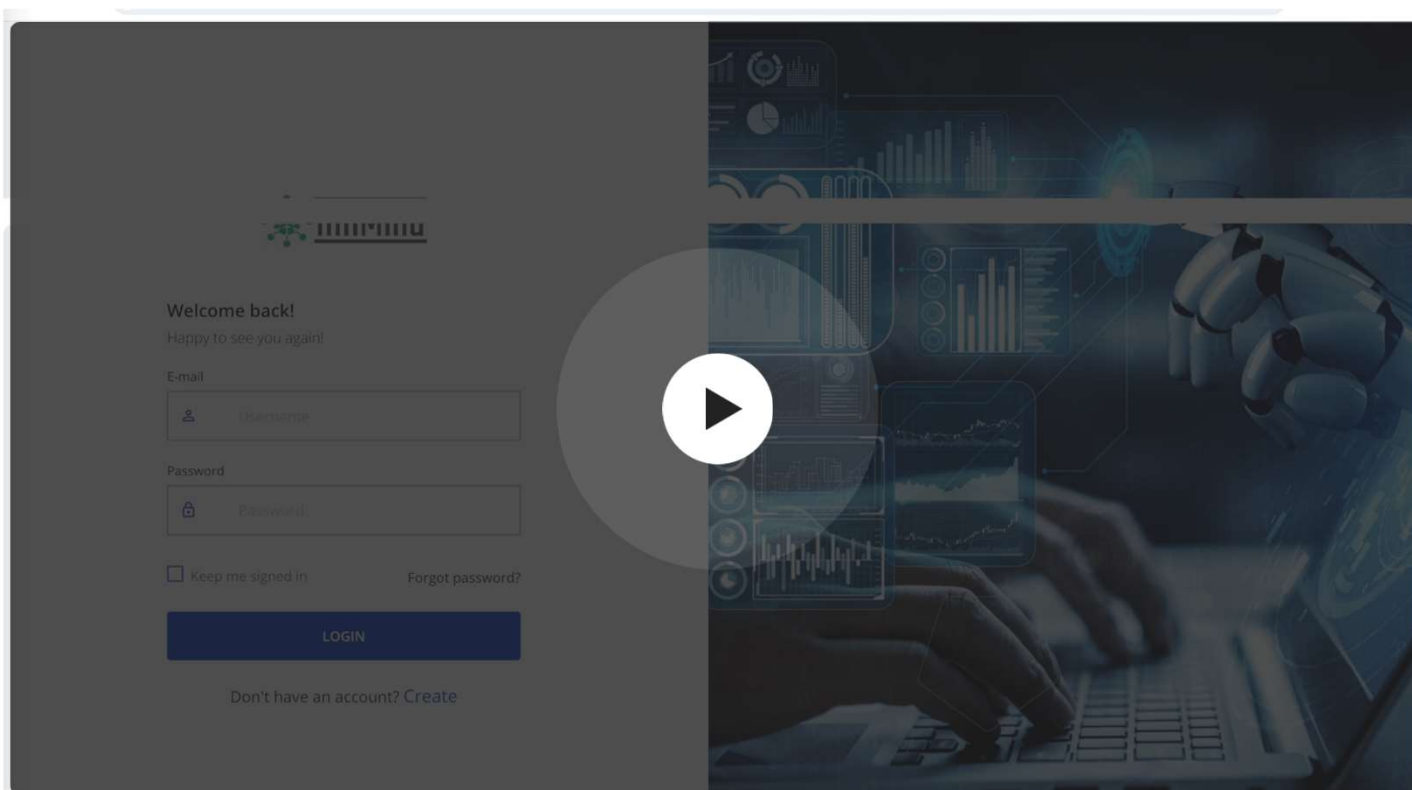
**Data-Driven Insights**



**Cost-Effective Scalability**

# Demo

## Development of neural network architectures



- InfiMind platform used a set of initial products (algorithms) in its database and use evolutionary algorithms and Large Language models to generate a novel product (algorithm).
- It will be useful to rapidly designing waveform using a database of physics-based models used to generate waveforms.
- The platform could be developed as an application to be deployed on a hand-held device or laboratory computers
- YouTube links: [https://youtu.be/tvUyTBJ\\_51k](https://youtu.be/tvUyTBJ_51k) and <https://youtu.be/25xmDTh20tE>
- Patent pending

# Team

## Polaron Analytics Employees



**DR. RAHUL BHOWMIK**  
CEO and Senior Scientist

**Expertise:**

Data Analytics, AI/ML, Business Operations, Non-Dilutive Funding



**DR. PHAN DUY NHAT**  
Data Analyst

**Expertise:**

AI/ML, LLM, Technology Development



**DR. LOKENDRA POUDEL**  
Research Scientist

**Expertise:**

Data Analytics, AI/ML, Quantum Mechanics and Computing



**DOUGLAS BROOK**  
Business Development Manager

**Expertise:**

Opportunity Identification, Entrepreneurship, IT

## Advisors



**JAMIE GATEAU**  
Senior Solutions Architect  
-National Security, Amazon Web Services

**Expertise:**

Leadership, Multi-million-dollar Projects, IT, Business Opportunities



**DR. NGOC NGUYEN**  
Assistant Professor, Computer Science, University of Dayton

**Expertise:**

AI/ML, LLM, Technology Development



**DR. SUSHANT JHA**  
Principal Engineer, University of Dayton Research Institute

**Expertise:**

Data Analytics, AI/ML, Materials Modeling and Simulations

# Contact

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