Machine Learning with 1,000,000x Less Data

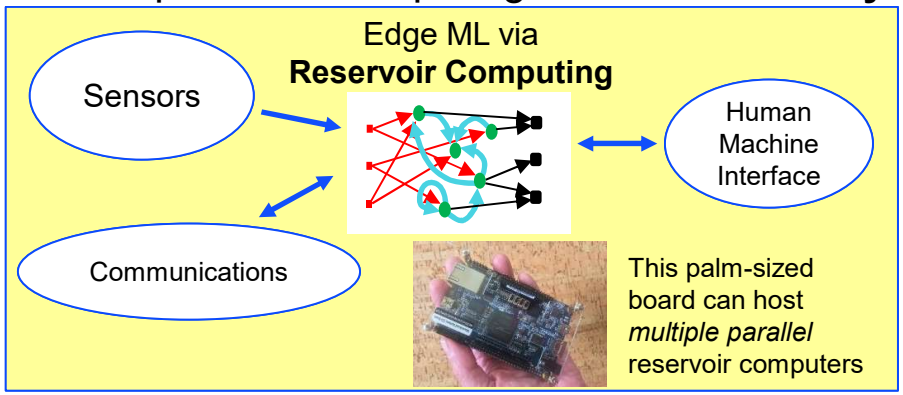
Contact Information

ResCon Technologies, LLC
4740 Shire Ridge Rd E
Hilliard, OH 43026
www.flyrescon.com

POC: Brian Gyovai
Founder & CEO
Brian.Gyovai@flyrescon.com
Work: 614-427-2741
Cell: 614-313-0005

Edge Computing Overview

Environments with **poor connectivity** +
Critical processes requiring **minimum latency**



Technology Description

- Deploying AI/ML to edge devices typically means adding computing power
- ResCon's approach implements ML through elegant algorithms that require far less data to train
- ResCon's tech is based on Reservoir Computers (RCs), a form of recurrent neural network
- RCs can train to a task using as little as one **one-millionth of the data** of a Deep Learning approach
- TRL 3 for augmenting control of a small UAS

Key Benefits and Use-Cases

- ResCon enables ML implementation, **including neural network training**, on the edge using standard COTS hardware
- Ideal for low-SWAPC complex dynamic systems
  - Control of UAS & autonomous vehicles
  - Control & modeling of propulsion systems
  - Robust, low-power sensor fusion
- Seeking partnerships with aircraft/subcomponent OEMs, plus R&D and funding opportunities

Airspace Management ☐	Command & Control ☑	Comms ☐	Power & Energy Storage ☐	Propulsion ☑	Sensors & Awareness ☑	Other ☐