

Goal:

I have two reasons (missions) for establishing this non-profit.

1. Education: Educating students on topics such as Quantum Computing and AI and their implications.
2. Implementation: Implementing the skills/knowledge they've acquired from the organization into improving their environment.
  - a. Environmental sustainability & Climate
  - b. Health, Medicine & Biology
  - c. Finance & Economics
  - d. AI & ML + Cyber
  - e. Mechatronics and SBCs (Single Board Computer)

Domain name:

Quantum-4-All.org

QuantumRiseFoundation.org

Potential Projects:

- 1) Environmental sustainability:
  - Exhaust pipe probe that measures carbon output
    - Could modify existing emission analyzer
  - Forecast extreme weather conditions
  - Measure pH levels, saltiness, cleanliness of water
  - Quantum optimized recycling logistics
- 2) Health, Medicine & Biology
  - Predict epidemics using diagnosis data, travel patterns etc.
  - Simulate molecular interactions
  - Play with the behavior of thermodynamics
  - Simulate brain neurons connections
- 3) Finance & Economics
  - Quantum portfolio optimization
  - Supply chain cost optimization
  - Play with the idea of quantum blockchain
  - Quantum forecasting markets

- Quantum enhanced financial modeling & risk analysis
- 4) AI & ML + Cyber
  - Quantum neural networks
  - NLP processing via Quantum computing
  - Cryptography/encryption via quantum
  - Simulate attacks
  - Solve encryption via quantum
- 5) Mech & SBCs (Raspberry pi, orange pi)
  - Could use Arduino or Raspberry pi to step into robotics, web hosting, clusters (Kubernetes) for efficiency and sharing workloads.
    - Could use the help of Luiz Guzman, CEO of System Tech Works LLC for robotics, AI, LLMs, Ollama, etc.

Costs:

- Form 990-N: Annual revenue under \$50,000; Online
  - Deadline: 4 ½ months after the end of fiscal year (eg. December 31<sup>st</sup> – May 15<sup>th</sup>)
  - Failing to file for 3 years -> IRS stripping non-profit status
- Georgia Secretary of State: Annual registration
  - Fee: \$30
  - Due: between Jan 1<sup>st</sup> and April 1<sup>st</sup> each year
- Fundraising permission:
  - Fee: \$35-\$100 annually
  - Exemption: Annual revenue less than \$25,000
- Web domain:
  - Namecheap: \$7.49
  - Hosting: Free – just need a raspberry pi and an sd card
- Misc

Total: \$50 - \$400 each year approx.

Potential expansions:

- Chapter for other USGs? UGA, GT, etc.
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