Proposal
CRYPTO MINING

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PROJECT DESCRIPTION

Objective:

The purpose of this proposal is to establish a crypto mining farm comprising 15 mining rigs, each equipped with 6 RTX 4090 GPUs. This farm will focus on mining profitable altcoin cryptocurrencies the high-performance RTX 4090 GPUs.

TIMELINE

- September 6 - initial proposal

COST

- $1,400 - $1,800 per GPU.

OTHER NOTES

Currently RTX 4080 GPUs produce about $0.80+ per day, per GPU

Proposal for Creating a Crypto Mining Farm size of regular household parking garage for 2 cars with 15 Rigs (6 RTX 4090 GPUs per Rig) and 15 cooling Fans

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1. Hardware and Infrastructure Requirements:

- **Mining Rigs:**
  - 15 Rigs, each with 6 RTX 4090 GPUs (total: 90 GPUs).
  - Compatible motherboard, CPU, and RAM for each rig.
  - PSU (Power Supply Units) rated to support multiple GPUs (estimated 4x 2200W PSUs per rig).

- **Cooling and Ventilation:**
  - Industrial-grade fans or liquid cooling systems for thermal management.
  - Proper airflow setup to prevent overheating, which can reduce efficiency and lifespan of GPUs.

- **Power Supply:**
  - Power consumption per rig: approx. 5100W.
  - Total power requirement for 15 rigs: around 76,500W
  - Stable and reliable electrical infrastructure to handle this load.
  - Backup power options (e.g., UPS) in case of outages.

- **Space:**
  - Secure facility with adequate space to accommodate rigs and cooling systems.
  - Ideally, a location with low electricity costs.

2. Software Requirements:.

- **Mining Software:**.

- Mining software compatible with NVIDIA GPUs (e.g., T-Rex Miner, NiceHash).
- Regular updates and optimizations for mining profitability.

- **Monitoring and Management Tools:**

- Remote monitoring tools for tracking performance, temperature, and electricity usage.
- Automation scripts to restart rigs or switch to more profitable coins.

- **Operating System:**
- Mining-optimized Linux OS or Windows, depending on software requirements.

3. Budget Estimate:
- **Hardware Costs:**
- 90 RTX 4090 GPUs: Estimated cost: $1,700 per GPU (Total: $153,000).
- Additional components (motherboards, CPUs, RAM, PSUs, etc.): $1,500 per rig (Total: $22,500)

- **Maintenance:**
- Regular monitoring of equipment for overheating, software updates, and hardware maintenance.
- GPU warranty and replacement in case of failure.

- **Profitability:**

- Expected revenue will depend on current market conditions & mining difficulty.

- Estimated daily profit from 10 000 GPUs RTX 4080 = $8,000 USD per day
- Estimated yearly profit from 10 000 GPUs RTX 4080 = $3 million per year