TEAM 10: The GUNE Squad
THE TEAM

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PROJECT DESCRIPTION

♫ Self-tuning Bass Guitar
   ♫ No known alternatives

♫ Design Alternatives:
   ♫ Tension-based tuning (head/bridge)
   ♫ Tone-sampled tuning ✗
   ♫ Digital Auto-tune
OUR SOLUTION

🎵 Integrated Self-Tuning Bass Guitar System
🎵 User Input
🎵 Strum
🎵 Microcontroller
🎵 Motors
OUTLINE

- Project Description
- Our Solution
- Design Decisions
- Obstacles
- Conclusion
- Acknowledgements
PICKUPS

- Alternatives
  - Standard
  - Polyphonic
  - Piezoelectric
TUNING MECHANISM

- Motor Mounts
- Weaver Rail
- Wooden Mount
- Aluminum Plate
MICROCONTROLLER


Telegram

Alternatives

- Arduino Due
- BeagleBone Black
- TI ADS8556EVM
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OBSTACLES

- Motors
- H-Bridge
- Encoder
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CONCLUSION

- Concept is feasible

- Commercial implementation would become costly
  - Motors
  - Batteries
  - $1300 (with guitar)
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QUESTIONS