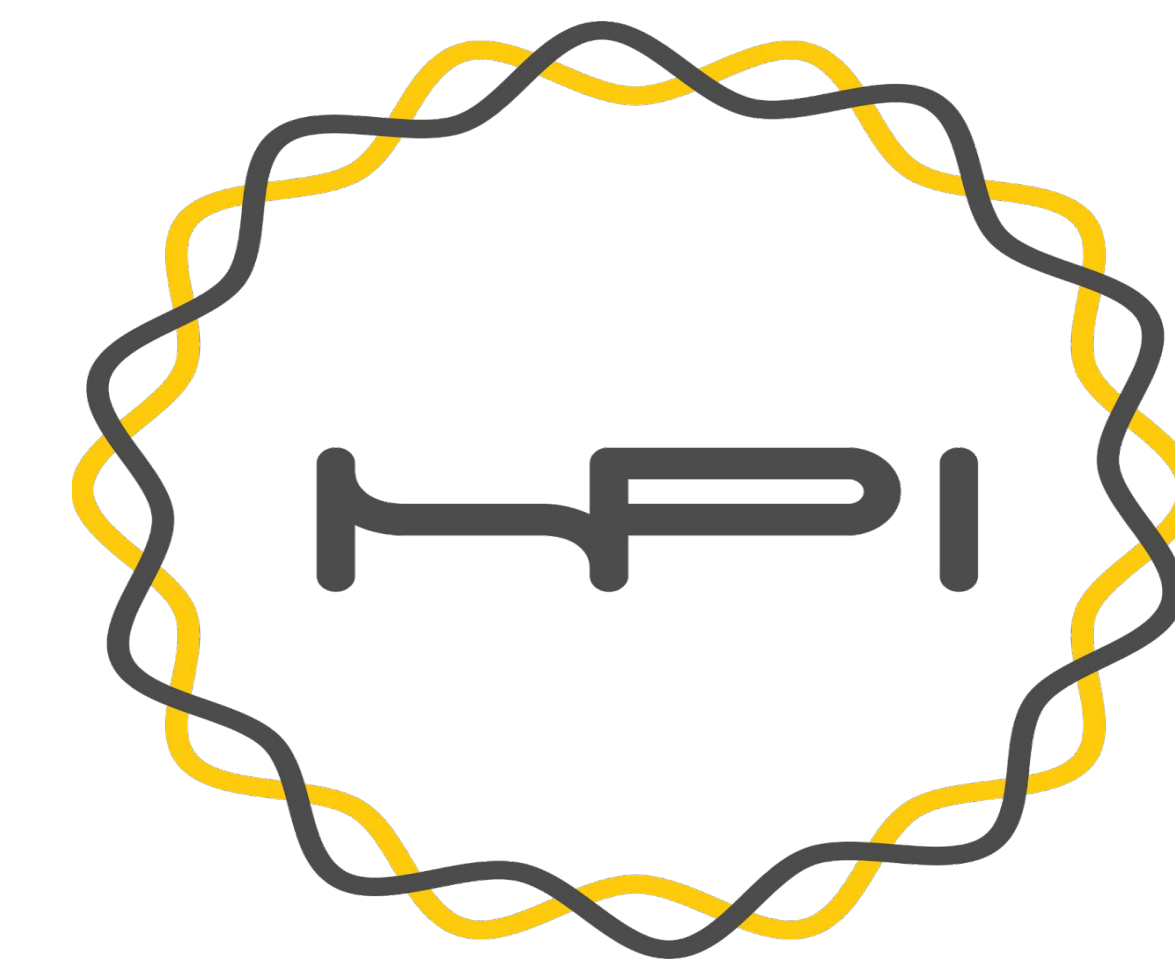


21 - Combined GPS and Intensity-based

Alignment of Laser Devices

Hansen Photonics Inc and Track Tech



- **What?**

- We will design and test software, which utilizes GPS, that enables devices to align and form a stable optical connection (via lasers).

- **Why?**

- Optical transfer allows for far greater data transfer capacity versus using standard methods.
- It is cost effective and environmentally friendly.
- This will be applied to increase data transfer speeds networking systems (i.e. server racks)

- **How?**

- Installing and interfacing with a GPS unit in each device prototype.
- Writing C++ code to execute on the arduino board, which will facilitate the alignment process at varying degrees of misalignment.

Photo example of two
prototype devices aligning
using lasers →

