

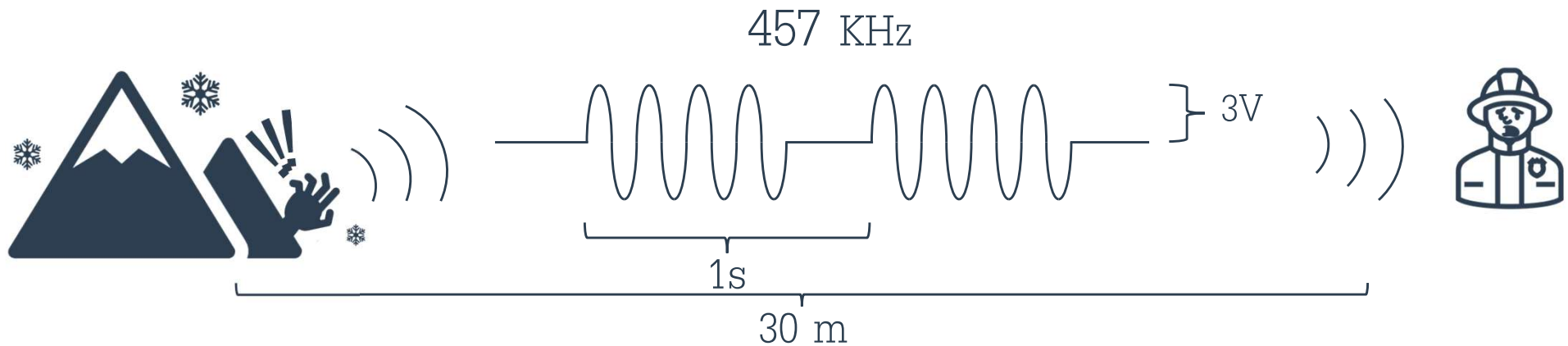
AVALANCHE TRANSMITTER

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Faculty Advisor: Joshua Mendez

Industry Sponsor: Galois

Acknowledgements: Andrew Greenberg



PROBLEM

\$300

Average commercial transceiver

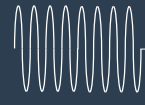
SOLUTION

\$100

Transmitter-only alternative

Si5351A

CLK GEN



Pro Trinket



Antenna

3V



Results

- ± 40 Hz peak freq tolerance
- IP65 case
- Portable PCB + power
- Under \$60 per unit
- 10 m detection range
- 80 hours on 4 AA batteries