

Hudson Valley Digital Network | www.hvdsn.org /presentations

Journey & HASviolet

About Hudson Valley Digital Network (HVDN)

Subpart A—General Provisions

§ 97.1 Basis and purpose.

The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

(a) Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.

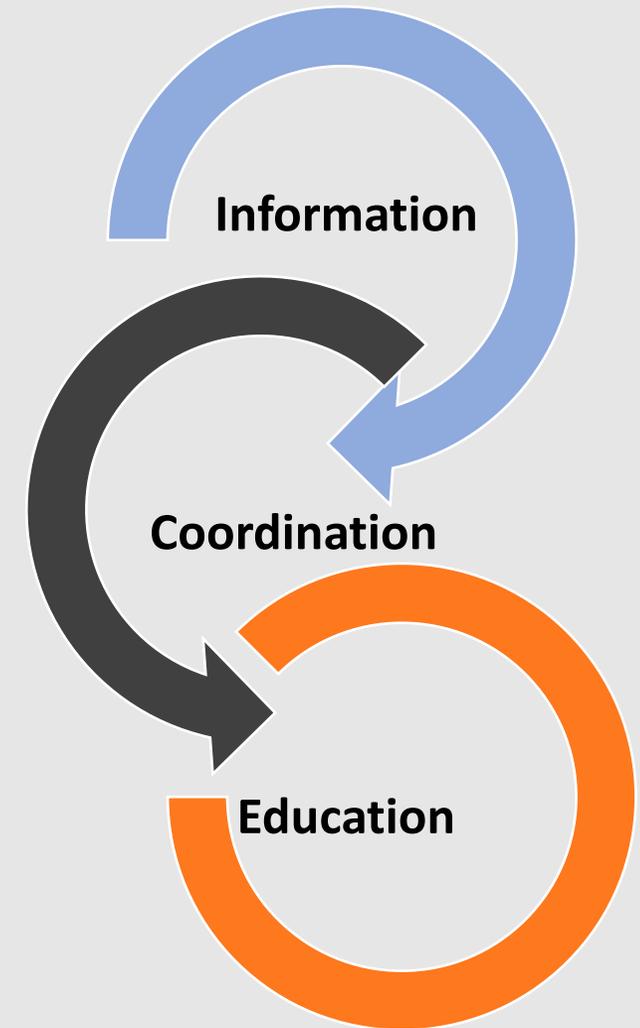
(b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.

(c) Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.

(d) Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.

(e) Continuation and extension of the amateur's unique ability to enhance international goodwill.

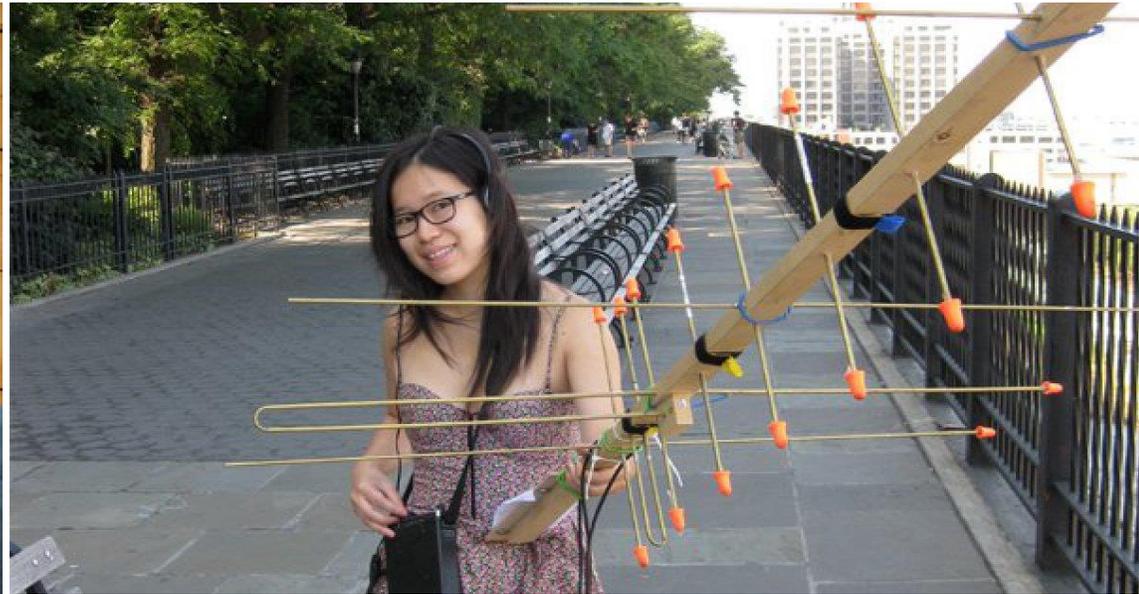
- HVDN founded 2017
- Digital meets physical world
- Deliberate modern & future focus
- Club call sign N2HVD
- Uphold FCC Part 97.1
- 3 pillar approach



Presentation Goal

Amateur radio lacks the diversity it **may** have once had. The goal of the **HASviolet** project is to inspire more use of spectrum, interesting applications and to attract new people into amateur radio through “**convergence**”.

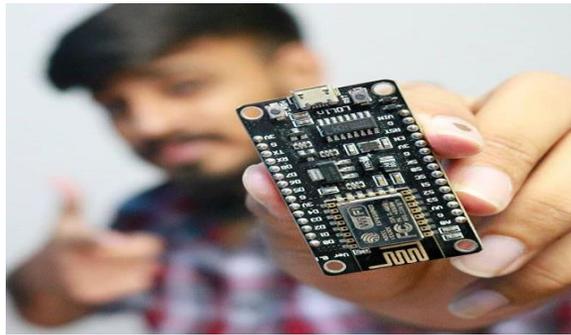
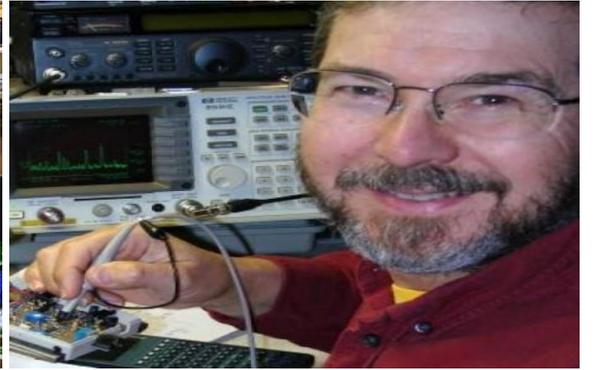
Convergence: What we aspire for.....



Convergence: Who & what we really are.....



Convergence: What we REALLY need.....



Journey

Start

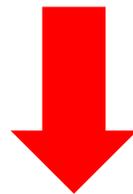


Amateur radio has many people with wide life experiences and stories to share

The biggest value amateur radio offers is access to wireless spectrum



How can we make that appeal to other people?



How can we both learn and share knowledge?

How can we not let 130 years of amateur radio history get in the way?

How can we focus on the future and not get bogged down by the past?



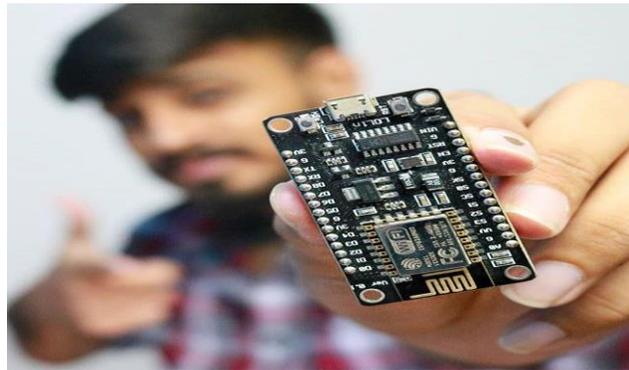
Convergence: What we REALLY need.....

Maker community engagement

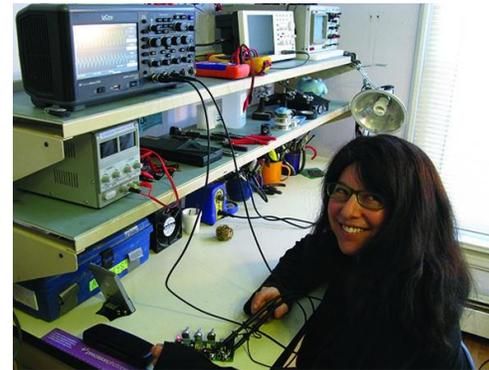


Technology appeal

Jeri Ellsworth AI6TK

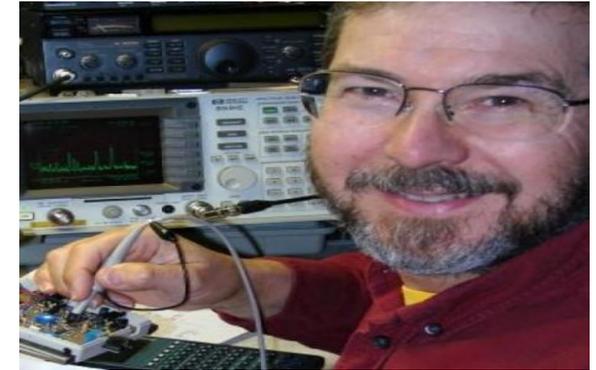


IoT & embedded



Maker

Sophi Kravitz, KD2HGW



Every day life hacks

Ed Nisley, KE4ZNU

Convergence: What we REALLY need.....

Spatial awareness and location focus



Way finding



Robotics



Hiking & SOTA

Convergence: What we REALLY need.....

Community engagement and decentralized communications



STEM Projects



Engage while at events



Community mesh related social
unrest communications



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Thinking



How can we simplify a wide set of “converged” interests into one project?



Can our project help change the way amateur radio is thought about?



Can we keep it simple, technical, beneficial and challenging at the same time?

HASviolet

(H) Hardware

(A) Antenna

(S) Software

Minimum or no soldering required

Repurposed for or from other projects

Inexpensive

Easy to purchase

Low cost

Easy to understand

Easy to build

Use for other projects

Repurpose knowledge

Inspire experimentation

Continuous development

Hardware agnostic

Clear instructions

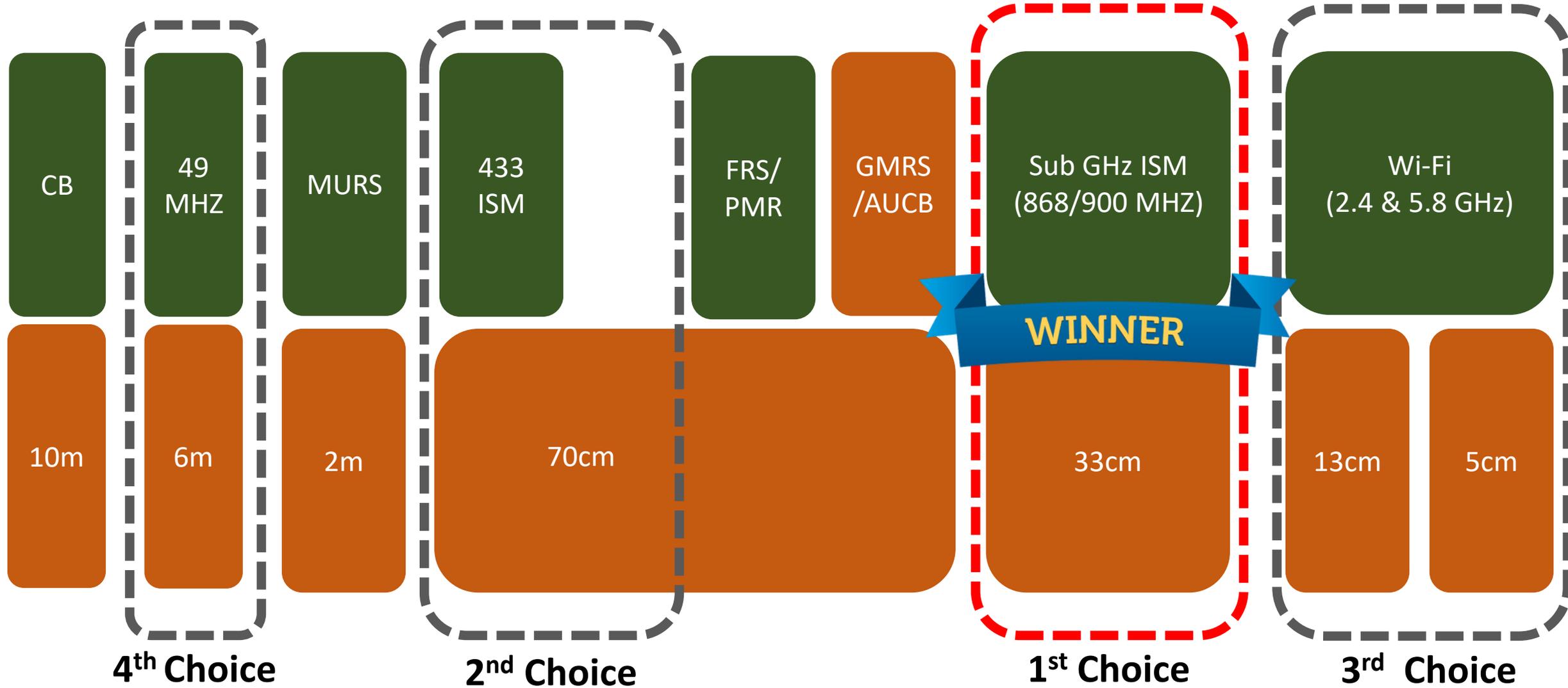
Easy to install

Built in help

Inspiration for more learning

Convergence between radio and computer people

Inclusion & Spectrum



HASviolet

Violet? =



Licensed &
unlicensed
spectrum



Journey

Rally Point



We needed to find a technology with a wide appeal and application inspiration

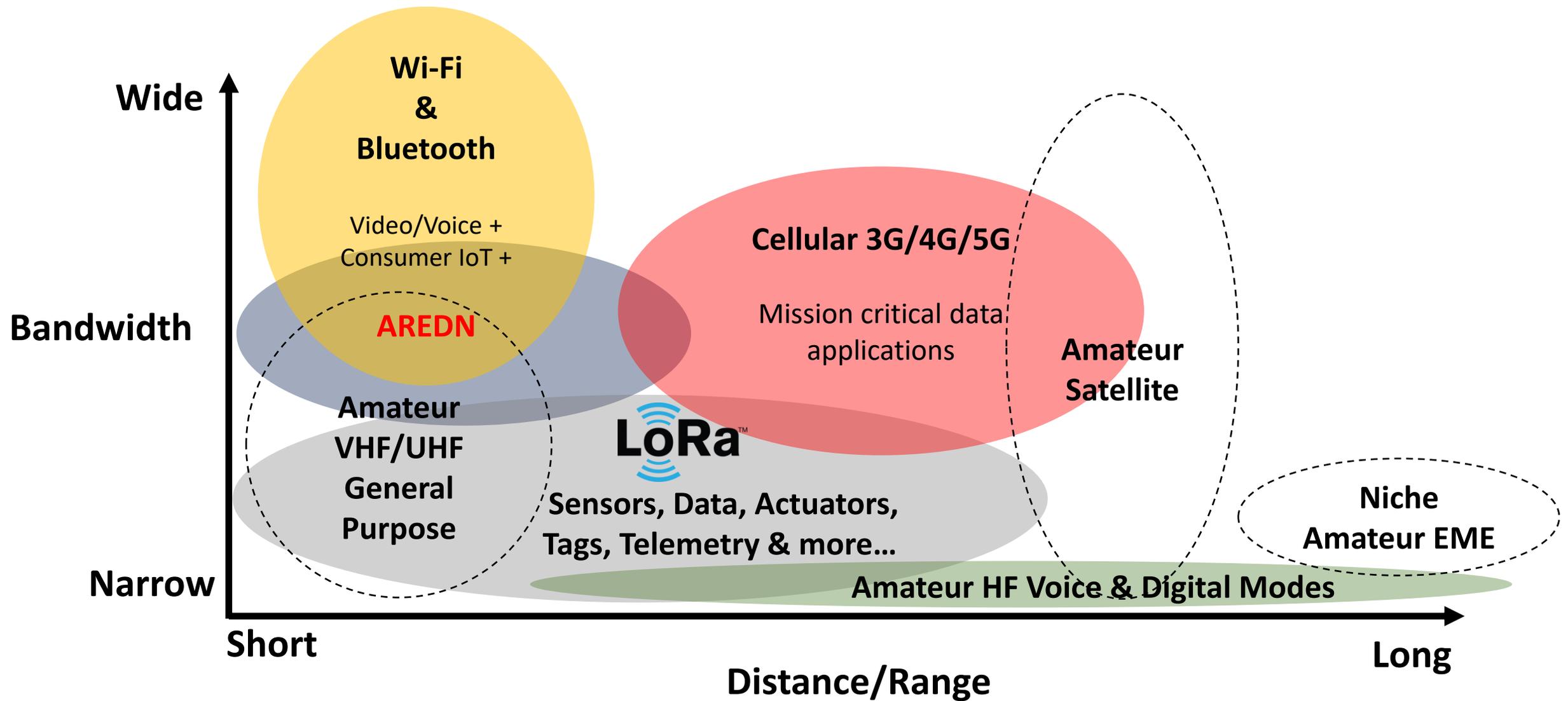


How can the student be the teacher?



Will our idea help fund HVDN or just better the wider world?

Solution Found: What is LoRa?



Where can I find more about HASviolet?

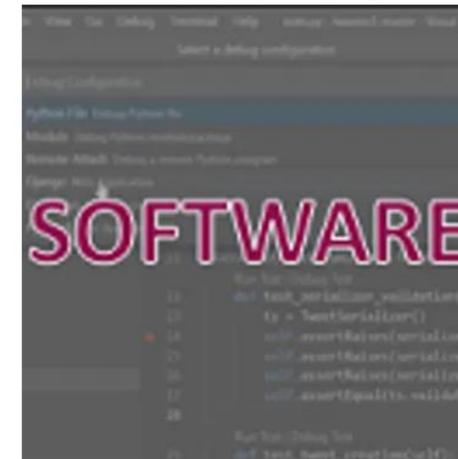
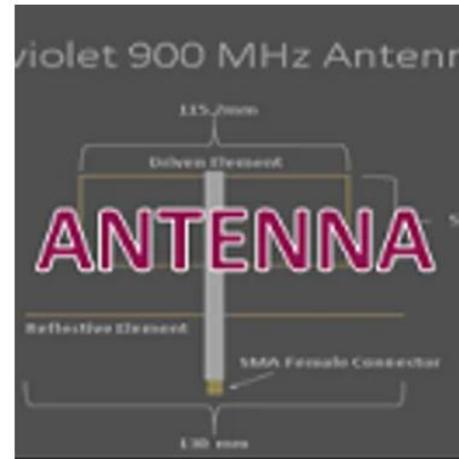
hvdn.org/violet

Want E-Mail Updates?

Email

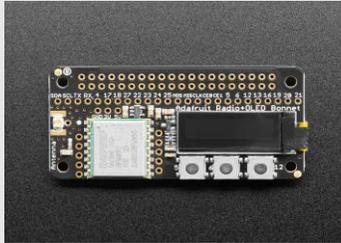
SIGN UP

QUICK ACCESS TO ARTICLES ABOUT...

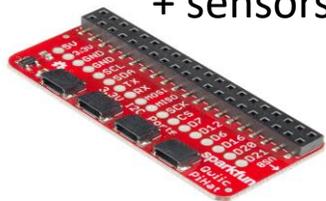


Getting Started for \$100 (USD)

Hardware

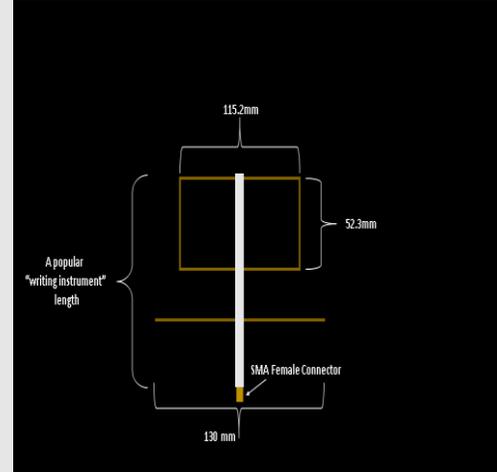


+ sensors



+ POWER

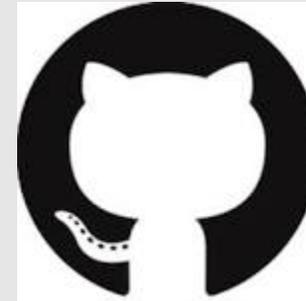
Antenna



Or other options...



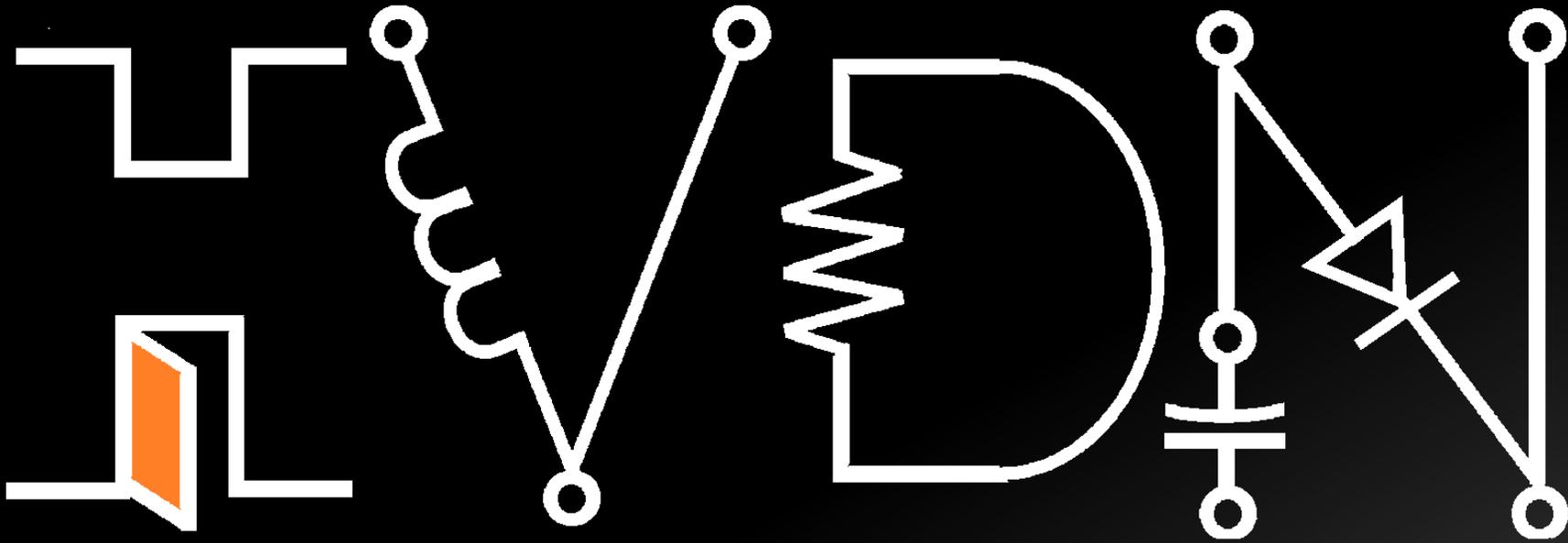
Software



hvdn.org/violet



<https://hvdn.org/donate>



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