

Quick recap

- The team discussed various topics including beekeeping, technical issues with internet connections, and the use of thermal cameras for electronic circuitry testing.
- They also shared their experiences with power outages, internet issues, and electrical safety, with a focus on the importance of not touching electrical wires with wet hands or bare feet.
- Lastly, they discussed their experiences with power supplies for old machines, network setups, and the use of a deductive current meter for testing electrical wires.

Next steps

- Research and purchase an affordable thermal imaging camera for electronics troubleshooting .
- Investigate and resolve the network configuration issue related to RSTP.
- Run Ethernet cable and water line to the shop building, including digging a trench and installing vaults for UV protection.
- Continue investigating the issue with the ELEGOO PETG filament spool and consider alternative brands.
- Try using peanut butter or WD-40 to remove the old masking tape from the Starfighter joystick.
- Email the group the link to the Scotty Kilmer video featuring the Thermal Master P2 device.
- Scott to send Richard the item they discussed.

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Summary

Bees, Beekeeping, and Natural Practices

- The meeting involved a discussion about bees and beekeeping. Scott shared his experience of being stung by bees and his plans to potentially replace the queen in one of his hives. He also mentioned the possibility of introducing a new queen to the hive. Scott discussed the process of creating a new queen and the importance of having young larvae for this process. He also mentioned the idea of natural beekeeping, which involves not treating the bees with chemicals. The team also discussed the potential of introducing a new queen to the hive and the importance of having strong bees.

Technical Issues and Retro Tech

The group discusses technical issues with their internet connections and video feeds. Bob shares his method for efficient storage using smaller containers.

Scott mentions being stung by a bee, while Don's eye injury is improving.

Kevin shows off a retrofitted Atari 800 XL computer and discusses a recent monitor replacement due to accidentally damaging the previous one while attempting to connect a coax cable.

• Ammunition Discussion and Ski Plans

The group discusses various topics including meeting locations, weather conditions, and skiing plans.

The conversation then shifts to ammunition, with Scott sharing information about online ammunition retailers and prices. Bob inquires about specific ammunition types and compares current prices to past costs of reloading. Richard joins the call and is briefed on the ongoing discussion about ammunition supplies.

• EIEGOO PETG Filament Spool Issues

Scott discusses issues he's having with an EIEGOO PETG filament spool on his 3D printer. The printer keeps reporting that the filament is stuck or jammed, though printing continues when resumed. Scott suspects the problem is due to poor winding of the spool, causing inconsistent resistance. Richard and Scott discuss potential causes, including spool size and winding quality, but conclude it's likely an issue specific to this particular spool as Scott hasn't experienced similar problems with other filaments.

• Joystick Cleaning and Tax Discussions

The team discussed various topics, including a joystick that Richard was trying to clean and a tax situation in California. Richard was attempting to remove dried tape from his joystick, with suggestions including using peanut butter and oil. Scott suggested that Richard could try using a disk from a CD, but Richard clarified that there was no disk available.

The team also discussed their tax situations, with Richard mentioning that he was due for a refund, and Scott mentioning that he gets a \$10 credit for state e-filing. The conversation also touched on the high taxes in California and how it was causing people to leave the state.

• **Exploring Thermal Cameras for Troubleshooting**

Don shared his experience of using thermal cameras for electronic circuitry testing and troubleshooting, mentioning a product called Thermal Master that he discovered recently. The product is about half the size of a thumb drive, plugs into a cell phone, and displays a thermal image. It is under \$20 (actually, Don corrected himself later and said it was actually \$200.00).

The team discussed the potential usefulness of such a tool for testing old Atari boards and Commodore computers. They also discussed the cost of similar products, with most being around \$200.

Don suggested looking into Thermal Master further, and the team agreed that it would be handy to have such a tool for their work.

• **Power Supply Issues and Solutions**

Kevin discussed issues with power supplies for old machines, which he was unable to fix despite trying multiple power supplies. He mentioned that the machines needed a 9-volt supply to boot up, but the power supplies he had only output 5 volts. Don shared his past experience of working with high-voltage power supplies and suggested that Kevin could try freezing or heating the epoxy cases to make them more manageable. Scott also shared his experience of building a demo keyboard with a capacitive scroll strip, which was damaged due to incorrect power supply usage.

• **Power Outages and Internet Issues**

The team discussed their experiences with power outages and internet issues. Kevin mentioned that his area did not experience any power outages, but he saw a news report about a neighborhood waiting for a power line to short circuit. Scott and Richard shared that they did not have any issues with power or internet.

The team also discussed a video about a thermal camera that Don promised to send a link to for further review. The thermal camera was suggested as a useful tool for cheap inspections.

• **Richard's Network Setup and Ethernet Plans**

The team discussed Richard's complex network setup, which includes cameras, a network video recorder, and a broadcasting system. Richard identified a potential issue with Spanning Tree Protocol (STP) and made some configuration changes to address it. Scott shared his plans to run Ethernet cable to his shop, replacing his current wireless setup due to signal issues. The team also discussed the benefits of wired connections, with Scott recalling his previous home's extensive Ethernet setup. The conversation ended with Scott planning to run Ethernet cable from his house to his barn and addressing a grounding issue in his shop.

- **Electrical Safety and Equipment Experiences**

The meeting involved a discussion about electrical safety and experiences with electrical equipment. Scott shared his experience of getting shocked while trying to pull a wire for his hot tub, and the group discussed the importance of not touching electrical wires with wet hands or bare feet. They also discussed the use of a deductive current meter for testing electrical wires.

The group also discussed a backup generator that Scott had to return to Costco as it was not big enough for his house.

The conversation ended with the group preparing to leave the meeting room before the security guard arrived.