

IT Infrastructure Report: August 10 to September 14, 2026

Executive Summary

An AI Agent was deployed in Makersmiths Slack using \$2,000 of Azure grant credits we received. IT continued building out a proposal for a Makersmiths camera refresh covering both sites.

Hermes AI Agent

[Hermes AI Agent](#) was deployed in Makersmiths Slack. The AI Agent is integrated with read only keys for our Elastic and Home Assistant deployments, giving it deep insight into technical infrastructure at Makersmiths. It's also able to reach out and leverage information on the Makersmiths website and wiki on-demand.

Here's a few examples of recent exchanges in the #AI Channel:

Rob D: @Hermes whats the current status of the leesburg 3d printers? are they in use? when were they last used?

*Hermes: As of **Sept. 16, 2026 at 12:32 PM EDT**, the Leesburg printers appear to be operational and online, but **none is currently printing**. All report *idle*, completed status, and no print errors.*

- X1C-001: last print finished **Sept. 16 at 1:16 AM EDT***
- X1C-002: last print finished **Sept. 15 at 8:11 PM EDT***
- P2S-MSL: last print finished **Sept. 16 at 7:39 AM EDT***
- H2S-MSL: last print finished **Sept. 16 at 6:31 AM EDT***

So they are clearly being used—most recently this morning—but no active jobs are visible right now. This is based on Home Assistant/Bambu telemetry, not a physical inspection.

The current printer inventory is documented on the [MSL 3D Printers wiki page](#).

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*Jim: @Hermes when is the next Purcellville work day ?*

*Hermes: The next Purcellville Work Day should be **Saturday, October 3, 2026, from 9:00 AM to noon at 785 S. 20th St., Purcellville**. It's held on the first Saturday of each month.*

*Check the Makersmiths Slack General channel shortly beforehand for the specific job list.*

## Space & Network Usage

Visitor activity was very high across both locations. At the Leesburg site, we saw a large jump in visitor devices, with 222 unique devices connecting, compared to 121 the month before. The Leesburg site was busiest during the evenings, with peak activity occurring around 17:00, 18:00, and 14:00. The Purcellville site also saw increased connection events, with 272 events recorded. The typical visit length at Leesburg was about 40 minutes, while at Purcellville, visits averaged about 29 minutes. This level of activity suggests the space is heavily utilized, especially during peak hours.

## Tool & Equipment Usage

Usage of specialized equipment was moderate this period.

### **Lasers**

- The Leesburg CO2 Laser (100W) was active on 33 of the 35 days, completing 898 jobs.
- The Purcellville CO2 Laser (100W) was active on 9 of the 35 days, completing 43 jobs.
- The Purcellville Fiber Laser was idle for the entire period.

### **3D Printers**

- The X1C-001 printer at the Leesburg site was used 17.0% of the time.
- The X1C-002 printer at the Leesburg site was used 23.2% of the time.
- The H2S-Leesburg printer at the Leesburg site was used 38.3% of the time.
- The H2S-Purcellville printer at the Purcellville site was used 8.5% of the time.
- The P2S-Purcellville printer at the Purcellville site was used 5.0% of the time.

## Website Reliability

The main Makersmiths Main Page was very reliable, staying up 99.96% of the time, with only a brief downtime of about 21 minutes. However, the Wiki experienced significant downtime, staying up only 94.23% of the time, which resulted in a substantial outage of about 48.5 hours.