

## ELVI LORENZANA: OUR MOST CREATIVE TECH

*“My hobbies are remote control planes, DIY drones and learning new things. Google and YouTube are a good source for leaning stuff for free. I love challenges because they keep me motivated.” That pretty much describes Elvi Lorenza.*

---

**Elvi is also a creator/inventor. His main creations include these:**

**Software and hardware** that tracks objects and displays them in a graph (this was a team project graduation project for DeVry University).

**Drones.** He first bought one on eBay, took it apart and then put it together. His first effort was a fly-away. He never retrieved it. “You learn from your mistakes. I followed up with a safety check in my next effort,” he explained.

### **Two programs for MCPS**

**TeamWorks**, which are now used by our technicians daily. One keeps track of inventory parts for the copiers. The other software records service-call logs on the technicians’ phones during their school visits.

They are able to scan the barcode of parts used in the service call with their cellphone’s camera and share all aspects of the service call with the school partners and TeamWorks supervisors, so everyone is on the same page about the event. This makes it easier for those who follow up to know the details of the previous service call.

**3D Printing.** Elvi also designed and 3D-printed a gear to replace one that was used for paper trays in the school copiers. The gear has been discontinued by the manufacturer. “The quality of the material is almost the same as the manufactured part,” Elvi explained.



Elvi started out in MCPS two years ago as a copier operator. He is now an invaluable technician on the TeamWorks team. His future includes pursuing classes in cyber security and practicing whatever he learns. “When I start a new challenge, I make sure I have made some progress before putting it off for the next time,” he added.