Senior Autonomy Engineer, Localization & Estimation

BOVI.AG is on a mission to help orchard growers face an ever-worsening labor crisis. Every corner of an orchard needs to be attended to at least once a week. This is so labor intensive that upwards of 70% of farmers are unable to find the labor they need.

BOVI.AG's bolt-on kit adds autonomy to existing tractors, facilitating cost effective, safe and reliable operations. This allows one skilled operator to manage a fleet of tractors, dramatically reducing the cost of operations.

We are currently expanding our team, in order to bring a fleet of production-ready autonomous tractors to the field. BOVI.AG is looking for highly motivated Engineers to expand the capabilities of our autonomy software, with a focus on Autonomy, Localization, and Estimation.

Responsibilities:

- Write and test production-quality autonomy software; participate in code review across teams
- Research and experiment with sensors to expand the capabilities and robustness of BOVI.AG's perception stack
- Improve and design systems for localizing a tractor in an orchard environment, and navigating its nearby environment
- Implement fusion and estimation modules to combine multiple data sources into a highly accurate vehicle state description
- Do testing in the field with real world hardware and sensors
- As an early team member, help guide the direction and culture of the company

Qualifications:

- Proficient in C++, C, or Python
- 5+ years of experience writing high-quality software
- Experience with autonomy, localization, or state estimation systems
- BSc in Robotics, Mechatronics, Computer Engineering, Computer Science, or equivalent

Preferred Qualifications:

- Background in or exposure to the agriculture industry
- Experience working with startups or in dynamic team environments
- Experience with ROS or ROS2
- Experience with 3D cameras, or computer vision systems

Compensation and Other Details:

- Market level salary and benefits, early-stage equity in BOVI.AG