

Jacob See

Cannabis Extraction Manager | Hydrocarbon Extraction & Post-Processing | Lab & Operations Leadership

Self-taught, solo independent phytochemist specializing in the crystallization of organic compounds

New York, NY | +1 814 596 7447 | jacobjc75@gmail.com

Authorized to work in the US for any employer | Willing to relocate | Willing to travel and live on site.

PROFESSIONAL SUMMARY

Self-taught, solo independent phytochemist specializing in the crystallization of organic compounds, and a cannabis extraction and lab operations leader with over a decade of experience managing cultivation, processing, extraction, and packaging for cannabis companies, currently directing the hydrocarbon extraction department at a licensed cannabis manufacturer in New York. Owns and operates large-scale closed-loop hydrocarbon extraction equipment (two 6x48 columns and one 8x48 column, 200 lbs biomass/day capacity) with active and passive solvent recovery, dry ice or chiller cooling, and off-grid capability via 10kW wind/solar/hydro power; also runs client systems. Hands-on with short-path distillation (5L and 10L), including production and post-processing of extracts. Pairs cannabis expertise with a manufacturing quality background in GMP, SQF, 5S, and QA/QC inspection, plus a track record of writing SOPs, leading teams of up to 5, controlling costs, and maintaining safety and regulatory compliance. Seeking an extraction lab manager, lead extraction, laboratory director, or operations director role.

EQUIPMENT

- Owned: two 6x48 and one 8x48 closed-loop hydrocarbon columns; 200 lbs biomass/day capacity
- Active and passive solvent recovery; dry ice or chiller cooling
- Off-grid capable: 10kW renewable power (wind, solar, hydro)
- Also runs client systems, including 5L/10L short-path distillation

CORE COMPETENCIES

- **Extraction & Processing:** Hydrocarbon (closed-loop) extraction, post-processing, short-path distillation, distillation columns, chemical separation, lyophilization, filtration, centrifuges, reactor vessels, laboratory sample extraction & purification, custom equipment design, closed-loop system teardown, leak repair & rebuilds, equipment re-engineering & upgrades (condensers, chillers), mechanical repair of chillers, compressors, pumps & heaters, R&D
- **Quality & Compliance:** GMP, SQF, HACCP, ISO 9001, QA/QC, SOP development, product testing coordination, batch record review, in-process inspection, product release QA, deviation management, CAPA, root cause analysis, SPC, process validation (IQ/OQ/PQ), MSDS/SDS management
- **Safety:** OSHA, process safety management (PSM), HAZOP, lockout/tagout, hazardous material & chemical handling, chemical spill & emergency response, respiratory protection/PPE, fire safety, first aid
- **Operations & Leadership:** Team leadership & training, production planning & scheduling, yield & process optimization, cost analysis, inventory management, vendor sourcing & procurement, Lean, 5S, Six Sigma methodology, manufacturing automation
- **Systems & Tools:** Microsoft Office (Excel data analysis, Word), Google Workspace, SAP, inventory management software, CMM

CANNABIS EXTRACTION EXPERIENCE

Director of Hydrocarbon (BHO) Extraction | Licensed Cannabis Manufacturer | New York | October 2025 – Present

- Direct day-to-day operations of the hydrocarbon extraction department, overseeing production and post-processing of cannabis extracts.
- Schedule production and train technicians on equipment operation, SOPs and safety.
- Optimize extraction efficiency, yields and product quality across live resin, sauce, badder and diamond runs.
- Diagnose and repair most mechanical issues in house on chillers, compressors, heaters, water pumps and other support equipment, reducing downtime.
- Tear down, leak-check, repair and rebuild closed-loop hydrocarbon systems; re-engineer and upgrade condensers and chillers to improve process and product quality.
- Maintain department documentation and regulatory compliance; support QA/QC testing of finished extracts.

Cannabis Lab Manager / Consultant | Multiple companies | Olean, NY

**Experience and work during prohibition not included.*

- Managed cultivation, processing, extraction and packaging for multiple cannabis companies.
- Developed SOPs for lab and extraction operations and led teams of up to 5.
- Coordinated third-party product testing and maintained accurate records of test results to support regulatory compliance and product release.
- Found cost-effective production methods that lowered operating costs.
- Leverage an industry network of specialized producers and suppliers to source butane, dry ice and other consumables at highly competitive pricing.
- Drove R&D, process improvements and custom equipment design to raise yield and throughput.
- Designed product packaging and oversaw packaging operations.

OPERATIONS, QUALITY & MANUFACTURING EXPERIENCE

- Specialized in manufacturing automation, setting up production lines to run autonomously.

Chief Operating Officer | Pro Restoration and Maintenance | Hinsdale, NY | *September 2021 – Present*

- Oversee day-to-day operations and perform quality and safety checks on job sites, ensuring compliance with company standards.
- Designed SOPs and maintain MSDS/SDS records, strengthening regulatory and safety compliance.
- Partner with the CEO and CFO to expand business lines and win new clients.

Quality Compliance Specialist (QCS) | Whirley Drink-Works | Warren, PA | *January 2016 – October 2017*

- Documented issues and results from daily production runs, ensuring full traceability.
- Controlled nonconforming parts and inspected/measured parts from all presses using CMM, X-Rite, Shape Grabber, and handheld gauges.
- Upheld GMP and SQF standards, initiated 5S projects, and trained new QCSs.
- Balanced workload across production, packaging, and management teams to keep runs on schedule.

Crew Leader | Plyler's At Your Service | Rochester, NY | *April 2019 – May 2020*

- Led crews of 3–5 in industrial cleaning and sanitation, maintaining high standards of cleanliness and safety.
- Disassembled and locked out multiple machine types; mixed cleaning chemicals; operated boom lifts, jigs, and sky jacks for power washing through duct cleaning.

Self-Employed Landlord / House Flipper | Bradford, PA | *October 2017 – Present*

- Purchase, renovate, rent, and sell homes, performing water, gas, electrical, structural, and foundation repairs; manage all financial records and city/state inspections.

ADDITIONAL EXPERIENCE

- Forklift Operator, Saputo (temporary contract) | Friendship, NY | October 2018 – January 2019: Followed SQF GMPs and used SAP for warehouse operations.
- Forklift Operator, Spherion contract with PEPSI | Saint Marys, PA | August 2018 – October 2018: Managed locations for 300+ products.
- Crew Chief, Stanley Steemer | Eagle River, AK | April 2015 – August 2015
- Number 2 Pipe, Lake Erie Tobacco Company (LETC) | Killbuck, NY | September 2014 – April 2015: Trained new workers; kept usage logs.
- Assembly Technician / Shop Hand, Scott's Rotary Seals (SRS) | Olean, NY | March 2014 – May 2014: Assembled rotary unions to FDA standards.

EDUCATION & TRAINING

- The Field Handling of Natural Gas, Marcellus Natural Gas Training Program | March 2019
- Homeschool High School Diploma
- GED
- Vocational training in Manufacturing and CNC Machining

CERTIFICATIONS & LICENSES

- Certified Forklift Operator | Driver's License