Hanni A. Abukhater

Address: 15 Sanford Street, Clifton, NJ 07011 (C): 973 768-4048
hanniabu@gmail.com
hanniabu.com

EDUCATION

New Jersey Institute of Technology, Newark, New Jersey   Bachelor of Science, Dec 2013
Major: Mechanical Engineering

EXPERIENCE

Verticulture Farms LLC   **Brooklyn, NY**
Data Analyst   March 2015 – Present
- Automate facility operations such as seeding, filter cleaning, fish feeding, monitoring, and nutrient dosing.
- Develop and implement data acquisition software, equipment, and methods
- Generate monitoring dashboards with data visualization
- Analyze data sets to inform growing methods, operations, and business decisions
- Maintain database, monitoring-software, monitoring-equipment, and company website.

City-Hydroponics LLC   **Brooklyn, NY**
Director of Research & Development   Jan 2013 – Dec 2014
- Developed prototype hydroponic apparatus (VOHS) into a commercially viable product
- Increased efficiencies per area while decreasing unit costs and installation time
- Improved system reliability and safety by adding additional features
- Consulted with overseas manufacturers to dramatically decrease component costs
- Worked with frame fabricators to further optimize design and decrease manufacturing costs
- Created testing studies to evaluate growth of plants under several conditions
- Collaborated with intellectual property lawyer to create patents and protect various design aspects
- Compiled materials and componentry orders for testing and installation build-outs

NJIT Formula Society of Automotive Engineers (FSAE)   **Newark, NJ**
Frame Design Team Lead   Sept. 2012 – July 2014
- Design Formula-1 vehicle chassis around FSAE rule constraints and components requirements
- Collaborate with other team leads to meet design needs
- Optimized frame to meet weight, cost, and strength goals while complying with all FSAE rules
- Test design performance through physical and virtual torsional and bending analysis

NJIT Innovation Acceleration Club   **Newark, NJ**
President   Sept. 2011 – Jan. 2012
- Assist students in preparing business plans, presentations, and a target timeline
- Organize and coordinate meetings and presentations between venture capitalists and students
- Find competitions for students to submit or pitch their business plans

ADDITIONAL SKILLS

- Manufacturing: Solidworks, Pro-E Creo, ANSYS, AutoCAD, CNC Operation, Soldering
- Programming: PHP, Javascript, Python, SQL, Matlab
- Developer Tools: NPM, Bower, Github, Sublime Text 3, Raspberry Pi