

# Sixto Humberto Starkman.

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## EDUCATION

### Masters on Mineral Processing, MASC.

University of British Columbia (UBC), Vancouver, Canada (2012-2015)

### Masters on Energy Management, MASC.

New York Institute of Technology (NYIT), New York, USA. (2006-2008)

### Advanced Certificate on Environmental Management.

New York Institute of Technology (NYIT), New York, USA. (2006-2008)

### BSc. Mechanical Engineering (Thesis on Efficient biomass use).

Universidad Nacional Autónoma de Honduras (UNAH). Tegucigalpa, Honduras.  
(1985-1990)

## RELEVANT PROFESSIONAL EXPERIENCE

- Lenca Traditional. Owner. Small multi-purpose business oriented on emerging markets., Langley, Canada. (2023- Actual).
- Desarrollos Energeticos y Ambiente (DEASA/Honduras, 2000-Actual), General Manager. Energy and Environmental consulting firm focused on Energy Auditing, air pollution monitoring and health/safety consultancy.
- Artisanal Gold Council (Canada, 2016-2023)/Chief Senior Mineral Processing Engineer. Design, Install, Commission, and operate mercury-free gold processing facilities (crushing, grinding, gravity separation, hydrometallurgy, and tailing circuits). Indonesia, Mongolia, Philippines, Burkina Faso, Suriname, Peru, Sierra Leone, and Honduras
- Head Researcher on mercury-free precious metals recovery technologies.
- Lundin Mining (Canada, 2015-2016)/Project Manager. ASGM (Artisanal Small Gold Miners) Technical, Environmental and Social Mine Closure Capacity Building at "Las Vueltas del Rio mine" / Honduras.

- Canadian International Resources and Development Institute (Canada, 2014-2015)/Research Assistant. Evaluating International Education Program between SENA and CIRDI/UBC for the “Train the Trainers Artisanal Coal Mining Project” / Colombia.
- Anglo Gold Ashanti/Marsel Mining (Canada, 2015-2016)/ Project Manager. Social (Formalization & Education) and Environmental ASGM conciliation at “Gramalote Mine” / Colombia. (Anglo Gold Ashanti).
- University of British Columbia (UBC/Canada, 2012-2015)/ Research Assistant. Process analysis and energy efficiency improvement at Lafarge/Richmond Portland limestone cement grinding circuit (MAsc. thesis at Norman B. Keevil Institute of Mining.
- University of British Columbia (UBC/Canada, 2013-2015)/Teacher Assistant on the following courses: “Introduction to Mineral Processing (MINE 292)” and “Physical Mineral Processing (MINE 331)” at Norman B. Keevil Institute of Mining. Teaching concepts on: PSD, Flotation, Crushing/grinding, mass balance physical separation and sedimentation.
- University of British Columbia (UBC/Canada, 2014)/Research Assistant on Designing an Artisanal Processing Center at “Mina Las Juntas” / Costa Rica (NewLox Gold).
- University of British Columbia (UBC-UNIDO/Canada, 2013)/ Research Assistant on Artisanal Mining survey (economic/environmental/energy use) at Portovelo,Zamora/Ecuador.

#### AWARDS

- Graduated with Distinction - Masters of Energy Management, NYIT 2008.
- Appreciation Certificate from US Department of Agriculture in recognition for Efforts Related to Migratory Bird Conservation Using Environmental Alternative Coffee Cultivation and Energy Efficiency Processing Technologies. Joint research with Mesoamerican Development Institute (MDI), Winner of “Wings across the Americas, U.S Forest Service International Cooperation 2009 Award Edition”.

#### CERTIFICATES

- ✓ Advanced Certificate on Environmental Management - 2008 (NYIT), New York, USA.
- ✓ Energy Management Certified Levels I & II - 2004 North Carolina State University (NCSU), Raleigh, USA
- ✓ Authorized Occupational Safety Health Trainer OSHA 29CFR1910 General Industry/Georgia Tech. (OSHA-GATECH) Atlanta, Georgia, USA.