

**Education** BA with Individual Concentration, University of Massachusetts, Amherst MA  
*Multi-Media Education* (Computer Science, Education & Art)

**Hard Skills** **Hardware:** Microcontrollers/computers, PCB design, Wearables, ZigBee, Bluetooth, GPS, PTH/SMT, RFID, RF  
**Programming & Software:** UI/UX, C/C++, Java, GCC, Processing, Eagle, Fritzing, XCTU, ActionScript, JavaScript, Director, HTML, WordPress, GIMP, Inkscape, Adobe Suite, Google Suite  
**Add. Technical Skills:** Animation/3D modeling, music/sound/video production, AR, troubleshooting/testing/documentation  
**Soft Skills:** Team/organization building, educational skills, outreach & promotion, mediation, graphic design, lean methods

## EXPERIENCE:

**Self Employed** at [LinzeeCraig.com](http://LinzeeCraig.com), 2014 to present

- Project/Product/Event Management: Events, international research & development, lab organization & curriculum development teams
- Product & Curriculum Development: Research & development, growth facilitator, promoter, logistical planner, trainer, network extension, tech education infrastructure creation & maintenance. Workshops in Massachusetts, Rwanda, Uganda, Beijing, South Korea. Raised scholarship funding, hardware donations & awareness via promotional media
- Prototyping, Consulting & Outreach for organizations including Othermachine.co's portable CNC mill, CADSoft USA's PCB software *Eagle*, Texas Instrument's *LaunchPad* line, private clients; product development, prototype assessment, blogging
- Workshops: Programming, prototyping, PCB creation, soldering, wireless, wearables, microcontrollers/microcomputers, train the trainer, electrical engineering, tech ed, music, tech/art integration, video games, robotics, vertical farming, crime scene investigation
- Curriculum Development: GUI programming with JAVA, Bluetooth, PCB design, transistor based logic gates, video game & controller design, farm automation, AR interface creation, prototyping, soldering & rework
- Tech Ed Blogging & Media: [EETimes.com](http://EETimes.com), [SparkFun.com](http://SparkFun.com), [MakeRobotsNotWar.com](http://MakeRobotsNotWar.com), [MakerBolder.com](http://MakerBolder.com) & [OystersAndPearls.org](http://OystersAndPearls.org)
- Project Manager & Lead Engineer: Art installation at Nyege Nyege 2018 & 2019 — Sonar & misc interface light shows, costumes at three day international music & art festival with over 10,000 attendees

**Founder** at [QuestBotics Inc.](http://QuestBotics.com), 2016 to present

- Developed Bluetooth based tech ed robot/puzzle for ages 3+: teaches math, program logic, swarm robotics & art without a screen
- Original concept, hardware, software, test/programming jigs, business development, marketing & research, patent applications
- Prototype for teaching robotics to blind/sight impaired people: Developed in Uganda, software, braille, team coordination, promotion

**Junior Engineer** at Zebulon Solutions Inc., Longmont CO, 2016-2018

- Testing, prototyping, rework & builds: electrical, mechanical, environmental/durability, UI, SMT, wearables, small quantity builds
- Lab management & upkeep, business/community outreach & marketing

**Educational Outreach Coordinator** at SparkFun Electronics, Boulder CO, 2010-2014

- Oversaw product cycle start to finish, including board design, BOM, documentation, feedback & revision
- Co-founded SparkFun Electronics Education Department. Trained & managed incoming staff as department grew from two to eight. Lead instructor & instructor trainer
- Developed curriculum & educational material for initial twelve technology classes offered at SparkFun Electronics. Created OpenSource educational material for micro-controllers, GUI creation, wireless, *Summer Semester* (five day prototyping class for engineers & professionals) & others. Created tutorials, materials & videos detailing various embedded technologies
- Outreach & support via email, donations, site visits, curriculum tailoring & crowdsourcing in Americas, Europe, New Zealand, Africa & Asia, including significant projects with Harvard University, MiniBloq, National Electronics Museum & Arduino.cc
- Coordinated translation of educational materials into 14 languages
- Planned launch of Learn.SparkFun.com website, created the majority of initial content as well as site upkeep & expansion

## Technology related workshops, events/presentations coordinated & performed:

MIT, Embry-Riddle Aeronautical University, New York University, University of Colorado, Colorado State University, ITP, Stetson University, University of Arkansas, Longwood University, East Carolina University, University of Massachusetts, Tufts University, Hampshire College, Illinois State University, University of Wyoming, Denver Museum of Nature & Science, Science Museum Oklahoma Network, Arkansas Museum of Discovery, Science Museum of Minnesota, Union Station Science City, Boulder Museum of Contemporary Art, Strategic Air & Space Museum, Discovery STEM Institute, DesignWest 2013, Make a MakerSpace, TEI 2012, USASEF (2012/14/18), Maker Faires, NSTA, ISTE, NSBA, IT-o-Logy, POSSCon 2013, Colorado Space Grant Consortium, Boulder Digital Works, Uganda, Rwanda, Beijing, S. Korea, Chinese Hebei Province US Delegation, US Public & Private K-12, US Libraries

## Volunteer Positions:

- ESC Advisory Board: Rating proposed Design News/UBM Advanced Manufacturing workshops, talks at events
- Boulder CSED Week Executive Director: Annual week long event supporting Computer Science Education
- Outreach Coordinator: Tinkermill, Longmont CO- Outreach to promote awareness & coordination for Makerspaces
- Blogger for EETimes: Humanitarian & educational oriented pieces regarding my work in Colorado & East Africa

## Grants, Awards & Documentaries:

- Appeared in *PATHBREAKERS*, 2018 documentary — awarded Best Documentary Short at The African Film Festival
- Golden Mousetrap Award, Rising Engineering 2017 — awarded by Design News
- Five grants received for consultation, lead organization & instruction for international technology education