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A view of the current job market in K-12, higher education and corporate training

## Summer Institute II

There are several similarities and differences in the list of jobs below. All of the positions require knowledge of software applications as well as skills in other forms of technology. Each occupation also necessitates that the applicants possess interpersonal skills and require some form of experience. The higher education and corporate professions dictate involvement in industry while the K-12 positions only require teaching experience. According to Ovando & Trube, K-12 schools are focused on equipping students with skills they will need for college, therefore the goals of instructional delivery are focused on preparing students for higher education, negating the need for teachers with industry experience (Ovando & Trube, 2014).

I have spent many years in the K-12 field and feel it is time to move on. It is difficult to determine how prepared I am for the higher education positions since they do not list what software applications are needed in order to teach the classes listed on their websites. This would have a large impact on my ability to be effective in the position immediately. I am aware that I'll need additional training as popular computer programs continually change. Ongoing research will be required to find the software applications that are being taught in higher education today.

At this time I am preparing myself for robot training positions by completing the RobotC course offered by Carnegie Mellon. This will provide me with a certificate that I can present to potential employers displaying my ability to learn how to use software to solve problems.

My professional goals are primarily focused on finding a job in robotics training. The ideal position for me would involve the development of training programs. Another career under consideration at this time is providing robotics training directly to industry professionals or higher education students.

The searches I have completed have not been as successful as I had first anticipated. I will need to modify the manner in which I conduct the quests. Higher education and industry

searches have resulted in no hits for robotic instructors. I will modify my searches after networking with professionals in these fields so I can obtain better results. To this end I will develop a list of companies in the field of robotics production and installation. Once I have found specific companies I will view their websites for a list of job offerings. My research in higher education will require me to find in what department robotics education is placed since my research has only discovered software teaching jobs. I did find some corporate marketing and sales positions with Lego. As a teacher I feel that my experience be an asset for this company however I lack field marking experience.

As I review my professional goals, I believe that this is an ongoing process that will continually evolve. My current position provides me time to train myself in the ever fluctuating world of technology and complete my degree at NJCU.

## Higher Ed

### 1. Adjunct Faculty (Computer Science) Texas A&M, Laredo TX.

The Department of Mathematics and Physics seeks to establish a pool of qualified applicants for future, part-time Adjunct Faculty appointments in Computer Science. Successful applicants may teach up to nine semester credit hours within the required discipline at on campus sites or online as dictated by student demand, hold office hours, and assist students as needed.

<https://www.higheredjobs.com/faculty/details.cfm?JobCode=176080855&Title=Adjunct%20Faculty%20%28Computer%20Science%29>

### 2. Computer Science, Professor, University of Pittsburgh at Johnstown

The Natural Science Division of Pitt-Johnstown is seeking candidates for a one year full-time position in Computer Science to begin in late August 2015. This position offers opportunities to teach undergraduate courses for Computer Science majors and service courses for undergraduate students outside of the Computer Science major.

<https://www.higheredjobs.com/faculty/details.cfm?JobCode=176078114&Title=Computer%20Science>

### 3. Associate Course Director - Mobile Media Design I, Full Sail University, Winter Park, FL

The Mobile Media Design I Course is designed to teach students basic levels of graphics creation through the use of software programs used by design, animation, and interactive media companies worldwide. The course emphasizes vector graphic design from a mobile web-specific point of view and provides students with a thorough understanding of the basic techniques and tools used for designing compelling interfaces for mobile applications. Associate Course Directors may be required to teach both on-campus and online. All positions are full time, on-campus in Winter Park, FL.

#### Essential Duties and Responsibilities

- Creates and environment of learning by ensuring excellence in teaching skills and classroom content, student-centered focus, and maintain curriculum to keep current and relevant to industry standards.
- Utilize a variety of teaching strategies and encourage active learning.
- Create learning activities, including assignments, tests, quizzes and labs, and assess student outcomes in a timely manner through effective assessment and constructive feedback to students to support the learning process.
- Perform lectures for campus courses, and hold scheduled virtual course meetings for online courses. Teaching will be conducted through on-campus and online delivery.
- Interact positively with diverse student populations; provide all students with equal opportunities for learning.
- Demonstrate a commitment to the industry, maintain knowledge and skill relevancy through continuing education as defined in the faculty development plan.

<https://www.higheredjobs.com/faculty/details.cfm?JobCode=176077982&Title=Associate%20Course%20Director%20-%20Mobile%20Media%20Design%20I>

K-12

*1. Technology Coach (January 1, 2016 start date), Irvington, NJ*

The Instructional Coach has three primary responsibilities:

Pre-service professional development and ongoing coaching for teachers and teaching assistants,  
Providing leadership on the implementation of instruction and meeting the academic needs of scholars,  
Analyzing assessment data to inform instruction and instructional groupings,.

**Leadership & Relationships**

Oversee the implementation of instruction, including curriculum implementation, instructional methods and practices, and classroom and behavior management, Collaborate with members of the Site Leadership Team to ensure a safe, productive, and efficient program for staff and scholars, Raise issues with Site Leadership Team as appropriate, particularly related to the safety and achievement of scholars, Monitor scholars' educational and social progress and make necessary recommendations for adjustments

<https://k12jobspot.com/Job/Detail/1192801>

*2. Coordinator of Instructional Computer Services, Ramapo Indian Hills Regional High School District*

The coordinator of instructional computer services will work with the director of technology in implementing and maintaining a technology department capable of meeting the increasing technological demands of the district, as well as an infrastructure to support those demands.

<https://k12jobspot.com/Job/Detail/1196957>

*3. Technology Director, Independence Local Schools , Independence, OH*

Previous management, supervisory, and/or leadership experience preferred. Master's Degree preferred. Install, maintain and upgrade servers. Install, configure and manage VMware, data

storage and environments. Install, maintain, and upgrade PCs (OS, software, hardware) and printers. Experience with a wide range of operating systems and hardware platforms preferred. Ability to lead, plan, manage and work collaboratively with staff. Certifications preferred – A+, Microsoft (MCSE, MCP), or 5 years experience installing/troubleshooting PC's and servers. Excellent communication skills, oral and written, and excellent customer service skills. Knowledgeable in PC/Mac hardware, Lenovo PCS, HP Printers, Meraki switches. Knowledge of classroom technology including Smartboards, clickers, document cameras, projectors, I-Pads preferred Support classroom servers and desktop systems. Budget/forecasting development and inventory control.

<https://k12jobspot.com/Job/Detail/805693>

Corporate

#### 1. Robotic Training Instructor Diverse Automation, Inc. - Duncan, SC

The Robotic Training Instructor will be responsible for the following:

Maintain current knowledge of relevant technologies as assigned. Maintain software for Diverse Training Department. Participate in systems projects as required. Maintain records of training activities, participant progress, and program effectiveness. Conduct training sessions and assists in evaluating the effectiveness of training activities. Maintain the Robot Cells – mechanically and electrically. Continuously improve the training documentation and systems. Will eventually be required to train Allen Bradley ControlLogix 5000, Siemens S7 and Keyence Vision Inspection classes

[http://www.indeed.com/cmp/Diverse-Industries-Inc./jobs/Robotic-Training-Instructor-453365808ed1812f?sjdu=QwrRXXKrqZ3CNX5W-O9jEvZHHXPMA6DQpgWRLdrDMoV3acANOF3BmxTSSBvLZr3Hwa9JXrpQfUj4EmMzGy\\_rotMaWxoEUIxSA8Dudz-5Dr5M](http://www.indeed.com/cmp/Diverse-Industries-Inc./jobs/Robotic-Training-Instructor-453365808ed1812f?sjdu=QwrRXXKrqZ3CNX5W-O9jEvZHHXPMA6DQpgWRLdrDMoV3acANOF3BmxTSSBvLZr3Hwa9JXrpQfUj4EmMzGy_rotMaWxoEUIxSA8Dudz-5Dr5M)

## 2. Field Sales Representative, Lego, Southern California

Plan, execute and sell product into multi-channel account base, Lead and develop new accounts within designated marketplace aligned with our GTM principles, Manage the sell in and sell out of company designated closeout and discontinued product, Execute to established merchandising standards, Evaluate performance of overall market, Manage designated top volume store programs within territory to generate incremental sales volume and build the LEGO brand, Create, sell and execute unique retail programs, events or promotions in the market, Administrative duties: business plans, productive listings, sales and inventory analysis, development of item forecasts, POG's and ability to work with established systems such as Webshop and GCPS

[http://www.lego.com/en-us/careers/jobdescriptionpage?title=Field+Merchandising+Manager+\(Dallas+or+Chicago\)&id=52761327](http://www.lego.com/en-us/careers/jobdescriptionpage?title=Field+Merchandising+Manager+(Dallas+or+Chicago)&id=52761327)

## 3. Field Marketing & Training Manager, iRobotics, Boston, MA

4-year degree with a minimum of 5 years experience in field marketing and training, Experience creating retail sales associate training materials and customer demonstration scripts, Knowledge of North American retailers field marketing and training requirements, Excellent project management skills with demonstrated ability to manage multiple projects simultaneously and prioritize tasks to get the job done, Proven ability to think strategically and execute methodically with strong attention to detail, Exceptional verbal and written communications skills, Travel required up to 40%

<https://careers-irobot.icims.com/jobs/2548/field-marketing-%26-training-manager/job>

## References

Ovando, M. N., & Trube, M. B. (2014). Capacity building of beginning teachers from alternative certification programs: Implications for instructional leadership. *Jsl Vol 10-N4, 10*, 346.