




Lana Pereira

Instructor, Coach & Curriculum Designer

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EXPERIENCE

MILWEE MIDDLE SCHOOL | TEACHER, LEGO ROBOTICS AND AI

2010 – 2024 | Longwood, FL

- Wrote from scratch, taught, and have constantly revised my own robotics and artificial intelligence curricula.
- Head Coach of 4+ competitive FIRST LEGO Robotics teams yearly.
- Made custom game mats for greater engagement in LEGO Robotics classes.
- Contributed mat designs to legoengineering.com and created other resources now used by teachers everywhere, available via YouTube.
- Encouraged creativity with lessons on making robots dance and sing.
- Made in-classroom and virtual 'Calm Rooms' available for students.
- As a committee member for CFL Robotics, created a website to keep teams up to date with tournaments, registration and resources.
- Furthered my own education via MOOCs and other online courses and resources offered by Stanford and other respected institutions.

MILWEE MIDDLE SCHOOL | TEACHER, 6TH GRADE MATH, ALL LEVELS

2007-2010 | Longwood, FL

- Founded and ran the Milwee Math Club
- Created integrated math curriculum incorporating ELA and art using the book 'Chasing Vermeer', with class copies obtained via grant.

GREENWOOD LAKES MIDDLE SCHOOL | INTENSIVE MATH, ALL GRADES

2005-2006 | Lake Mary, FL

- Emphasised use of manipulatives to keep kids active and engaged.

ROCK LAKE MIDDLE SCHOOL | 6TH GRADE MATH, INTENSIVE THROUGH HONORS

2004-2005 | Longwood, FL

- Created interactive 'Jeopardy' slideshows to gamify skill drills before FCAT.
- Began writing songs and raps to help kids remember formulas.
- Began providing a website as a regular student resource.

SABAL POINT ELEMENTARY SCHOOL | MEDIA ASSISTANT

2003-2004 | Longwood, FL

- In addition to regular responsibilities, taught Media Specialist classes.

OTHER EXPERIENCE

CURRICULUM DESIGNER | ROBOTICS TEACHER TRAINING COURSE, 2016-17

- Developed and taught robotics training for educators across Central Florida
- Commissioned by NAVAIR(Naval Air Systems Command)

AUTHOR | ACTUATORS AND THE POWER TO DO TASKS, CAVENDISH SQUARE, 2017

- Co-wrote HS-level intro to motors and actuators, from simple machines and gear ratios to programming.

TOURNAMENT ORGANIZER | FIRST ROBOTICS COACH, 2012 - PRESENT

- Planned and managed Tournament events for LEGO Robotics teams.
- Created schedules, ensured adequate facilities, and organized coverage.

VOLUNTEER ORGANIZER | GIRL SCOUT SERVICE UNIT MEMBER, 2001 - 2011

- Organized and directed regional and Service Unit-wide events.
- Created, ran, and continually updated the Service Unit website.

AWARDS

FIRST COACH AWARD

2017, FLL State Championship

LEGO EDUCATION TEACHER AWARD

2018, National/USA

ASCE TEACHER RECOGNITION

2019 ASCE FL, East Central Branch

SKILLS & STRENGTHS

PROFESSIONAL

Strong Communicator • Excellent Writer • Analytical Thinker • Accomplished Grant Writer • Project Management Experience • Kagan Trained • Leads by Example

TECHNICAL

Programming Languages:

LEGO Mindstorms • Python • MakeBlock • Scratch • Smalltalk • Blockly

Tools & Learning Management:

Canvas • Google Classroom • Dreamweaver • Nearpod • Google Sites • Bitmoji Classrooms • Google Suite • Microsoft Office Suite

EDUCATION

FLDOE PROFESSIONAL CERT.

COMPUTER SCIENCE K-12

MATHEMATICS MIDDLE GRADES 5-9

ELEMENTARY EDUCATION K-6

EDUCATIONAL MEDIA SPECIALIST K-12

Gifted Endorsement

MSC; BSC (HONORS)

UNIVERSITY OF NATAL

Durban, South Africa

MBA

UNIVERSITY OF THE WITWATERSRAND

Johannesburg, South Africa

REFERENCES

PROVIDED ON REQUEST