

JOHN-PAUL (TRAVIS) O'NEIL

2505 Wanakah Ridge Dr. Cedar Park, TX 78613 | (512) 300-7954 | oneil.john.paul@gmail.com

COMPUTER SKILLS

Languages

- In the past: HTML, CSS, Java, Javascript, Python

Software

- Word, Excel, PPT, etc...

Hardware

- Assembling custom computers for gaming, cryptocurrency mining, basic networking of multiple computers

EXPERIENCE

3/2013 – 4/2015

Lab Technician / Chemist, *Unipixel Displays, Inc (NASDAQ: UNXL)*

- Worked on research & development of roll-to-roll electrolessly plated capacitive touch screen sensors using an extremely fine copper-based mesh. Cheaper than industry standard Indium-Doped Tin Oxide based touch screens, flexible, and low resistance allowing large touch screens up to 23" on the hardware we had available
- Research on the effects of Dissolved Oxygen on electroless copper plating of catalytic fine lines or features, and methods to control it – for extremely fine wires, patent pending
- Switched an industrial roll-to-roll electroless copper plating line from one chemistry which was not performing to another chemistry, including finding the new dosing characteristics, and passing on necessary modifications for increasing plating quality and control
- Assisted with the validation and running of a smaller scale "lab line" roll-to-roll electroless plating system including frequent manual titration and adjusting of the chemistry, features of this system are patent pending
- Assisted manufacturing partner at the time, Kodak, with understanding and realizing changes to multiple full size industrial roll-to-roll plating lines to allow them to plate rolls at higher throughput and identify and rectify issues to reduced defect counts
- Almost daily print verification though beaker scale hand plating of sensors followed by tests to verify electrical continuity, resistance, adhesion, visual uniformity, etc... And identifying, reporting, and studying defects when found to help reduce them in the future
- Trained 6+ people on beaker scale electroless copper plating including not-obvious improvements and ideal conditions necessary to scale up. Also trained them on finding defects with electrical testing
- Helped design a variety of plating tanks, washing tanks, modifications to lines, ideal plating line designs, etc...

3/2012 – 8/2012

Laboratory Technician / Assistant, *Kelly Scientific Resources*

	<ul style="list-style-type: none"> • Emergent Technologies Inc., Enavail, LLC. Contract pharmaceutical formulation R&D laboratory • Assisted in formulation research, pill formulation dissolution rate trials, etc...
2007 - present	<p>Pyrotechnics Display Assistant / Loader, <i>Multiple</i></p> <ul style="list-style-type: none"> • Multiple individual dates over many years • Western Enterprises, Pyrotechnico, volunteered for Pyrotechnic Artists of Texas Club • Labor Day 2007, New Years Eve 2007, Independence Day 2008 and 2009, etc... • Assist in set up, safe loading, electric match wiring, firing, take down, and clean up of professional firework displays
2007-2009	<p>Customer Service and Delivery Driver, <i>Austin's Pizza</i></p> <ul style="list-style-type: none"> • Three separate summers I worked here

EDUCATION

2011	B.Sc. in Chemistry, Environmental Concentration, <i>Texas A&M-Corpus Christi</i>
2009	<i>Austin Community College</i>

CERTIFICATIONS

5/24/15-5/24/17	<p>Wilderness First Responder (WFR) (+CPR/AED/Airway) 80 Hr through NOLS/WMI</p> <p>FCC Licensed Amateur Extra Class Radio Operator (HAM radio)</p> <p>Past:</p> <p>Hazardous Waste Operations and Emergency Response (HAZWOPER) 40 Hr</p> <p>Incident Command System (ICS) 100, 200, 700, & 800</p>
-----------------	--

AFFILIATIONS

2013-present	American Alpine Club (AAC)
2013?-present	Central Texas Mountaineers (CTM)
2011-2013	American Chemical Society (ACS)
2007-2009	Pyrotechnics Guild International (PGI)
2007-2013	Pyrotechnic Artists of Texas (PAT)

PATENTS

1. Method of Controlling Oxygen Levels for Electroless Plating of Catalytic Fine Lines or Features. 2014, US 14/455181. Jin, D.L.; O'Neil J.P.; Chyan, Y.
2. Roll-to-roll Electroless Plating System for Controlled Substrate Depth. 2014, US 14/495373 Chyan, Y.; O'Neil J.P.; Jin D.L.

